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Clemson University

FY17 STARS Final Presentation

February 2019

University of Toledo
University of Vermont
University of Washington
University of West Florida
University of Wisconsin - Madison
Vanderbilt University
Virginia Commonwealth University
Wake Forest University
Washburn University
Washington State University
Washington State University - Tri-Cities Campus
Washington State University - Vancouver
Washington University in St. Louis
Wayne State University
Wellesley College
Wesleyan University
West Chester University
West Virginia Health Science Center
West Virginia University
Western Oregon University
Westfield State University
Widener University
Williams College
Worcester Polytechnic Institute
Worcester State University

What is AASHE STARS?

CLEMSON UNIVERSITY

Sustainability Tracking, Assessment, & Rating System (STARS)

Academics

- Curriculum
- Research

Engagement

- Campus Engagement
- Public Engagement

Planning & Administration

- Coordination, Planning, & Governance
- Diversity & Affordability
- Health, Wellbeing, & Work
- Investment

Operations

- Air & Climate
- Buildings
- Dining Services
- Energy
- Grounds
- Purchasing
- Transportation
- Waste
- Water

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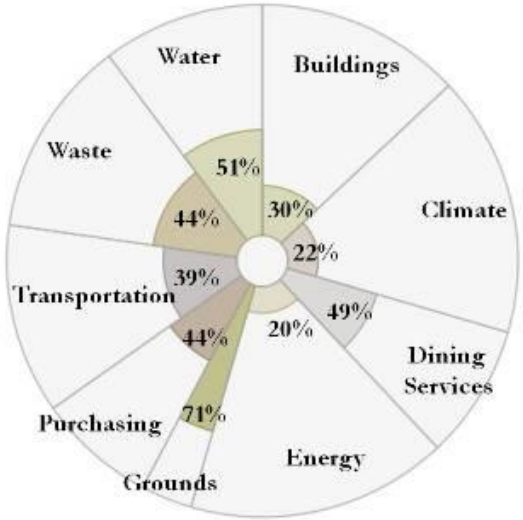
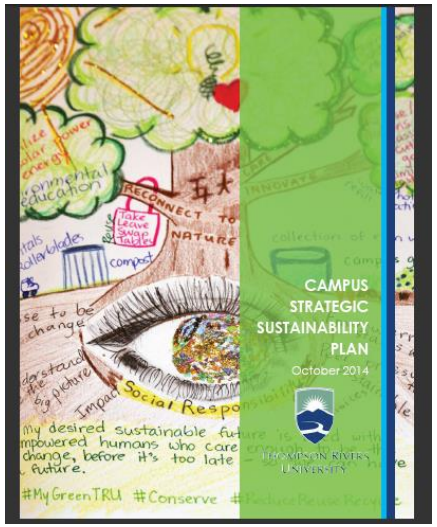
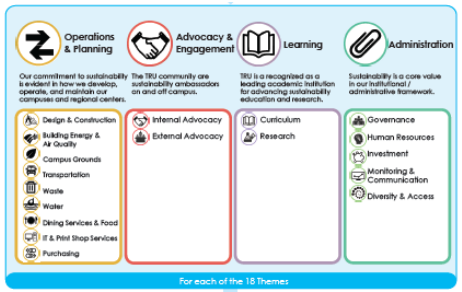
Why Participate in STARS?

To Gain Recognition



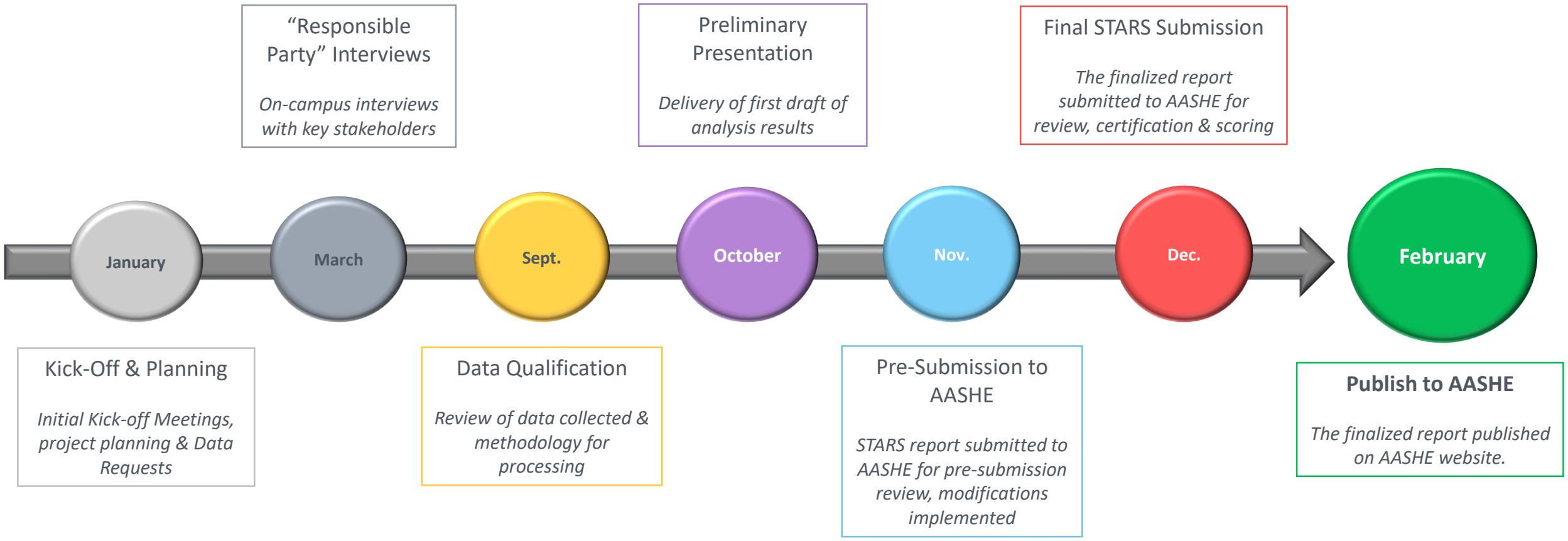
To Conduct Gap Analyses





To Plan for the Future

STARS Project Timeline



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Clemson STARS Score

CLEMSON UNIVERSITY

53.85%

WAY TO GO!

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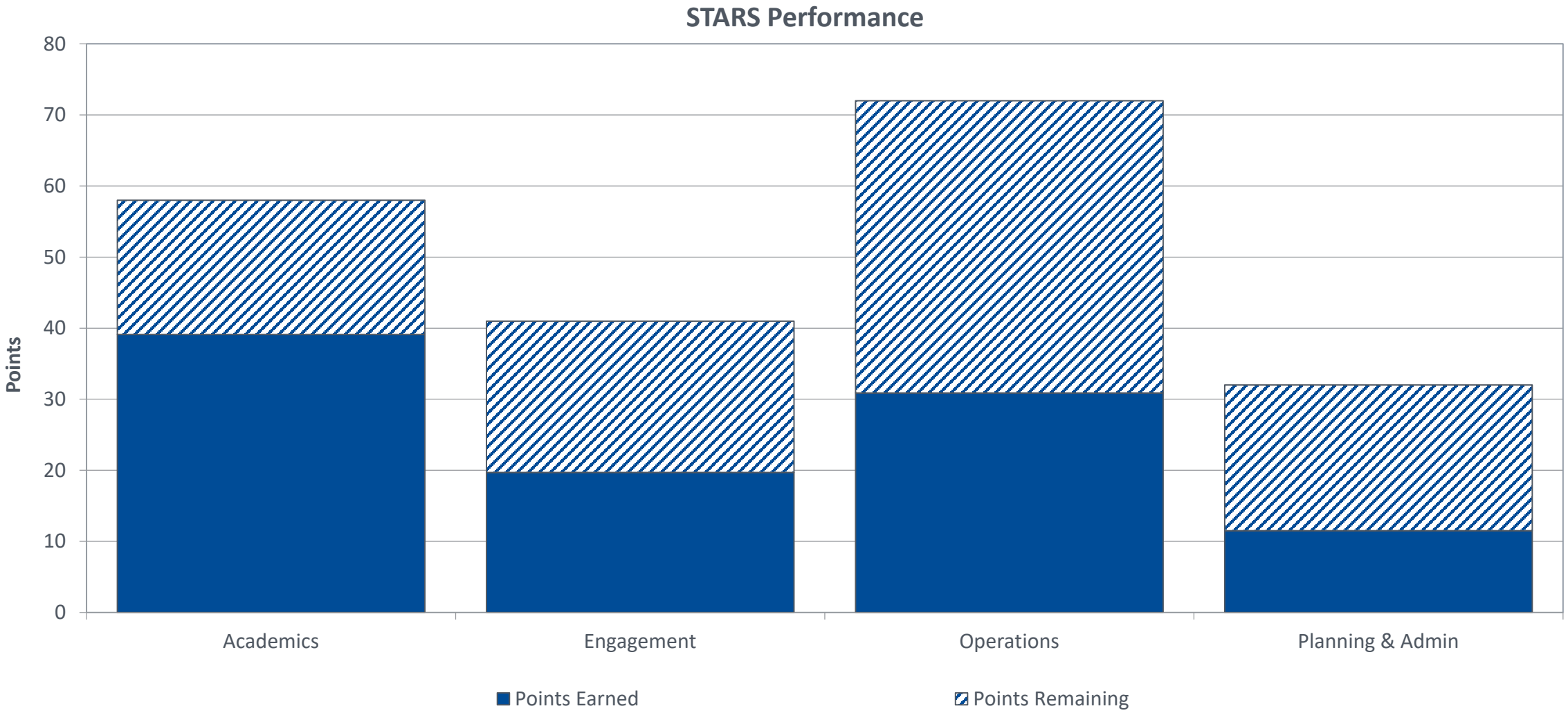
Overall Final Score per Section



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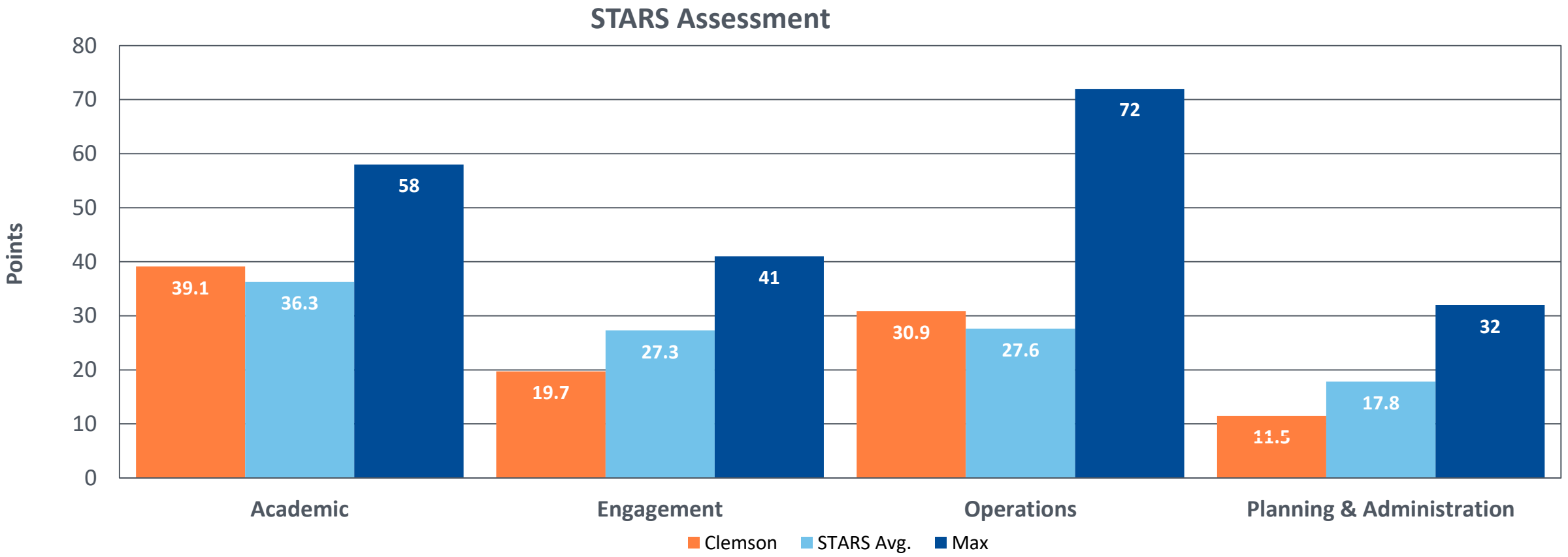
Understanding the 4 STARS Categories



% of Total Points	67%	48%	43%	36%

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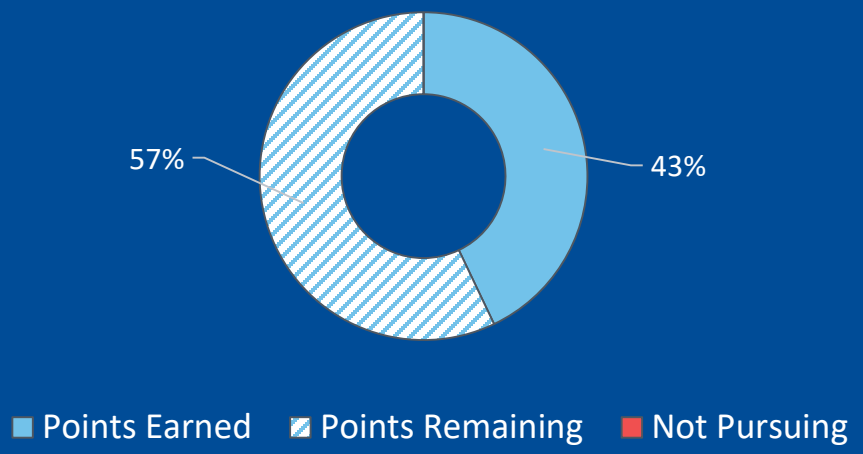
Operations



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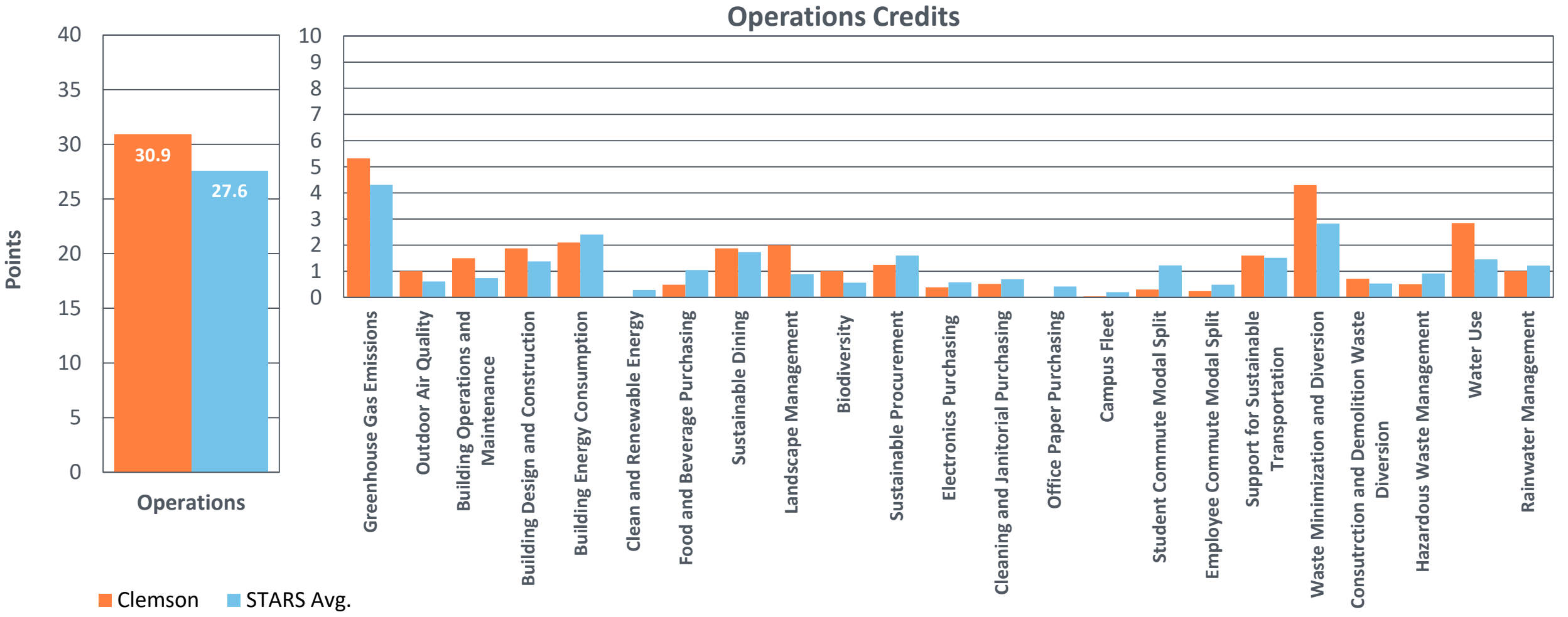
Operations: Clemson vs. Average



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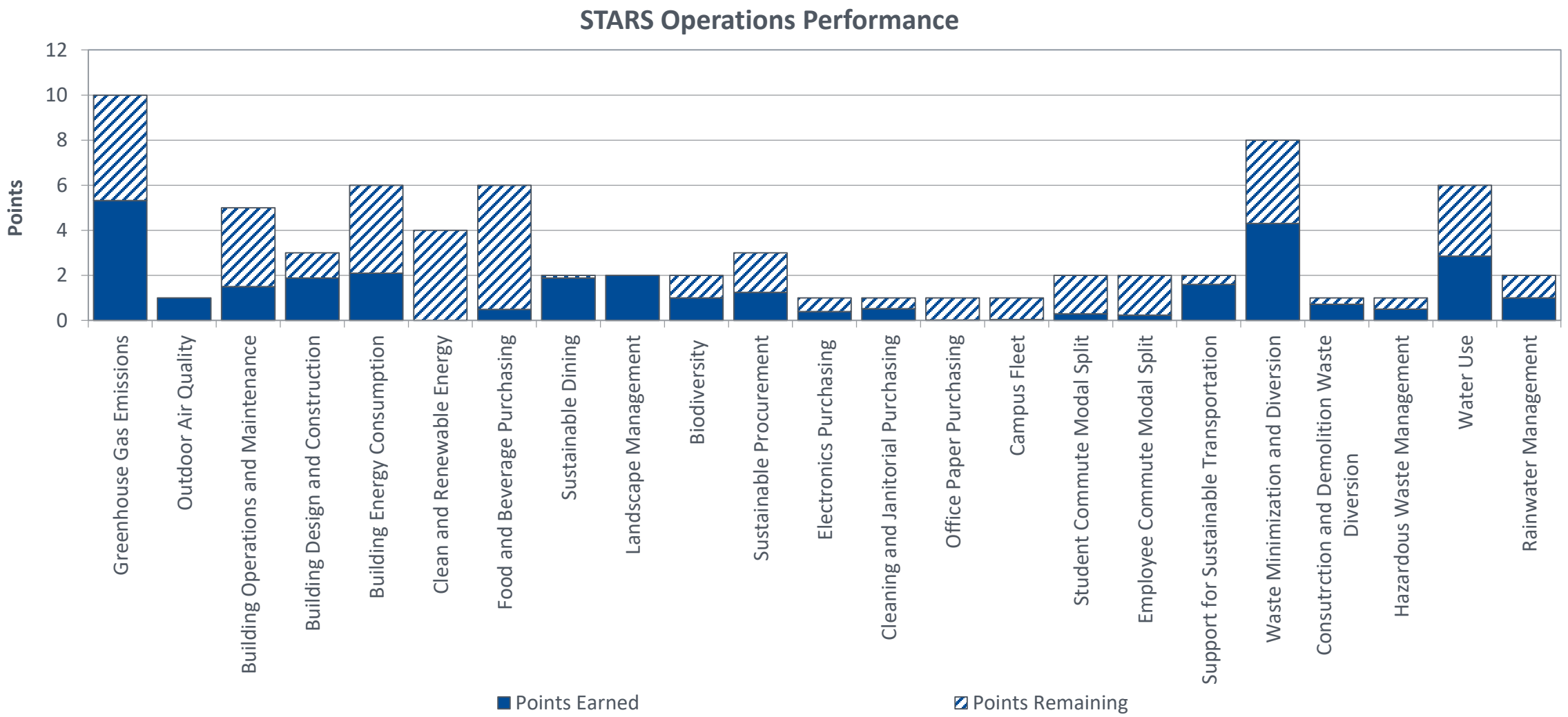
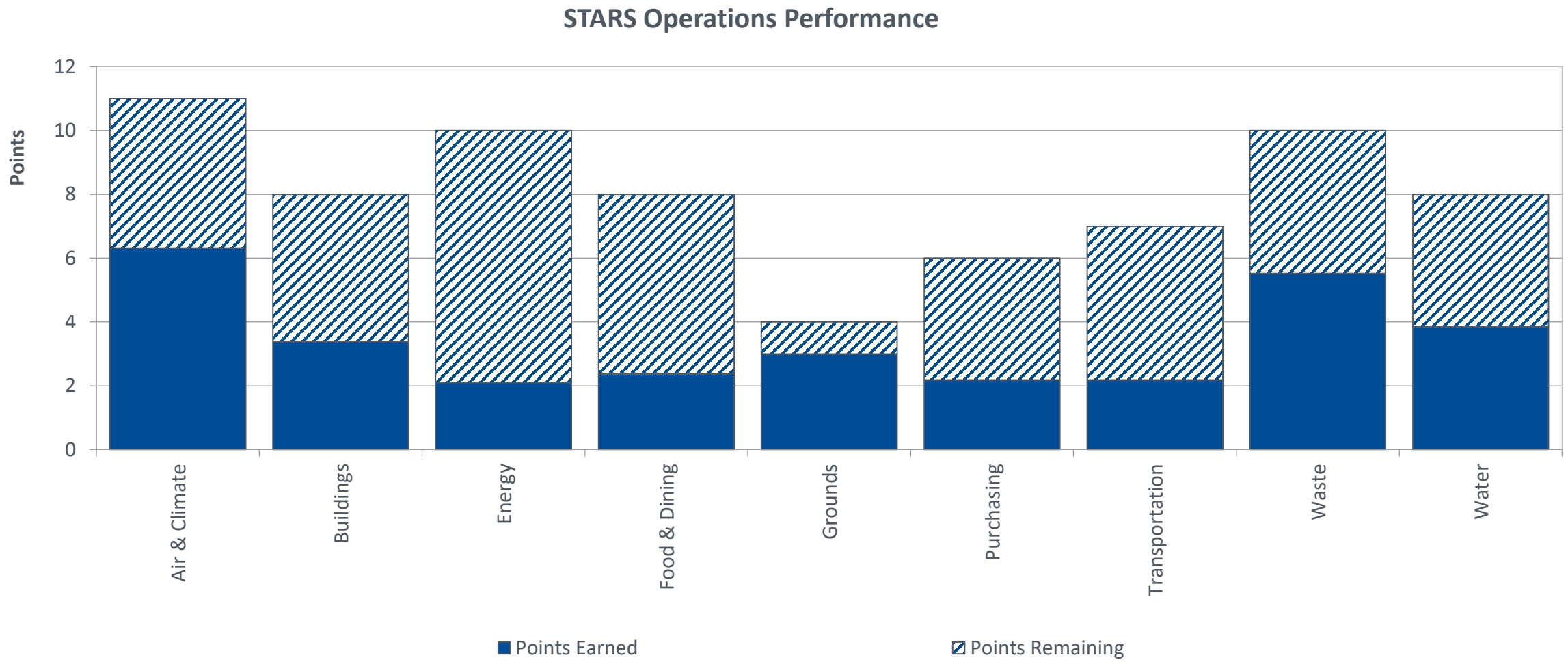
Operations Summary

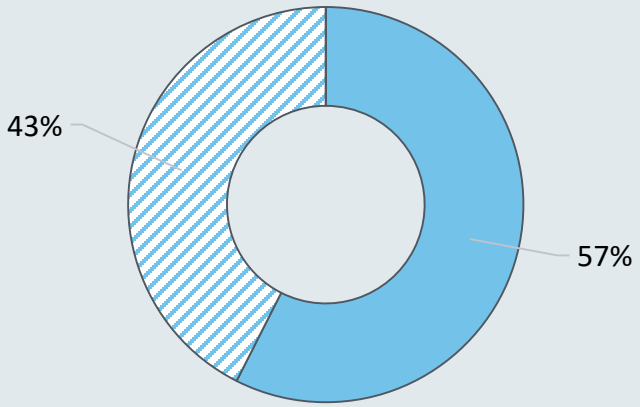


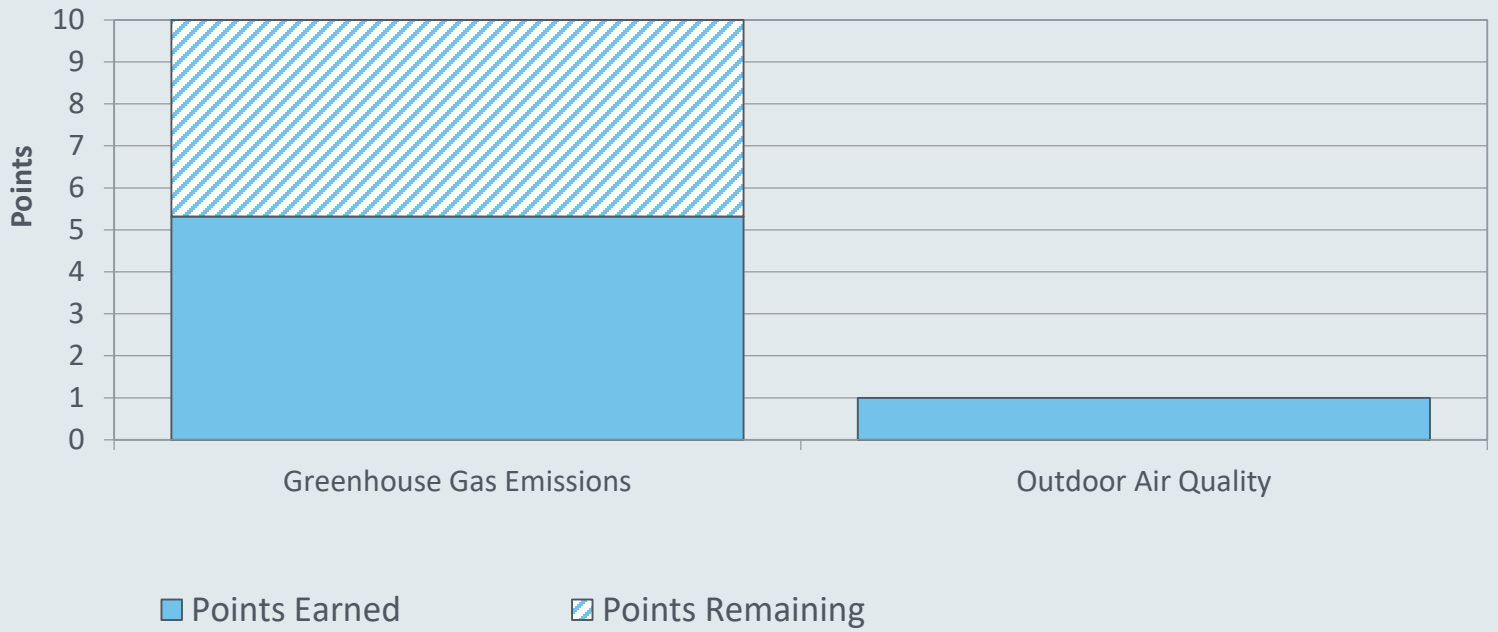
Clemson Operations Performance By Category

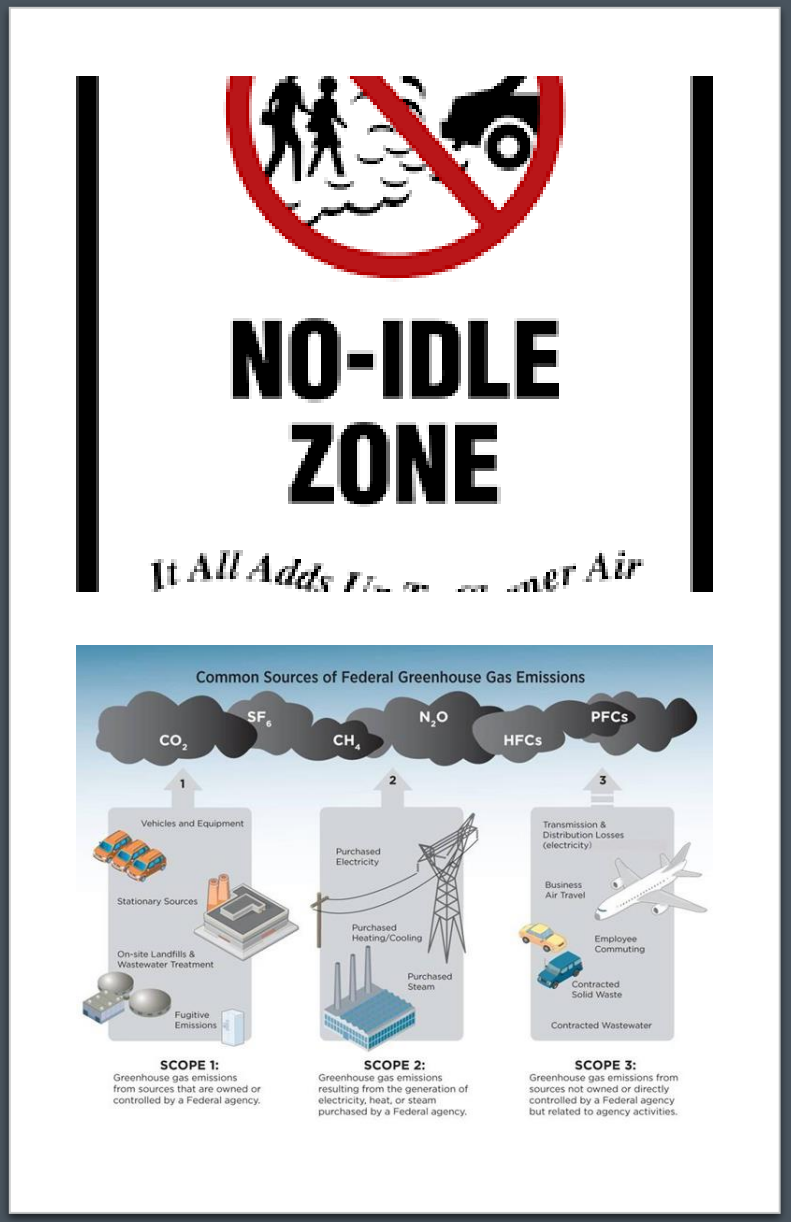


Back to Score per Section

Air & Climate


43%
57%


Points
10
9
8
7
6
5
4
3
2
1
0
Greenhouse Gas Emissions
Outdoor Air Quality
Points Earned
Points Remaining



Air & Climate: Overview

- Inventory and reduce greenhouse gas emissions
- Lower emissions per GSF compared to the minimum STARS performance threshold
- Maintain written policies and guidelines that reduce mobile sources of air emissions
- Complete an inventory of significant air emissions from stationary sources, to include NOX and SOX.

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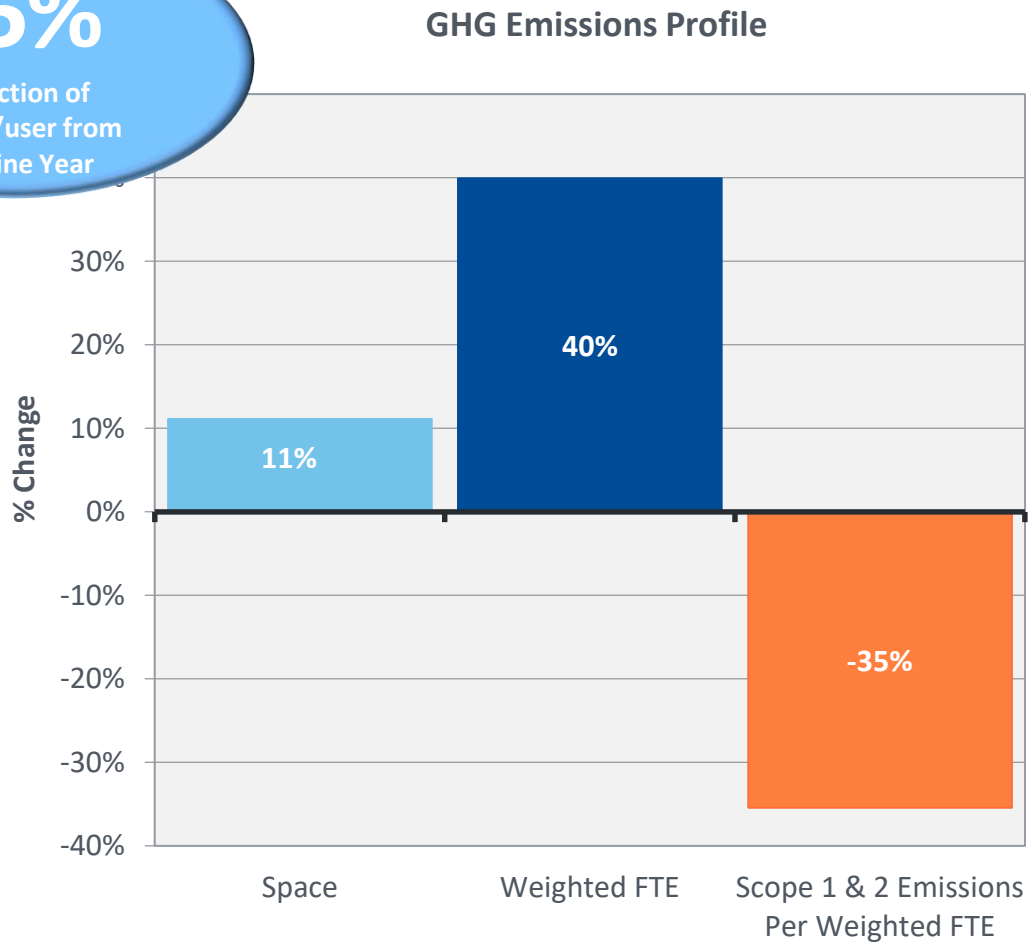
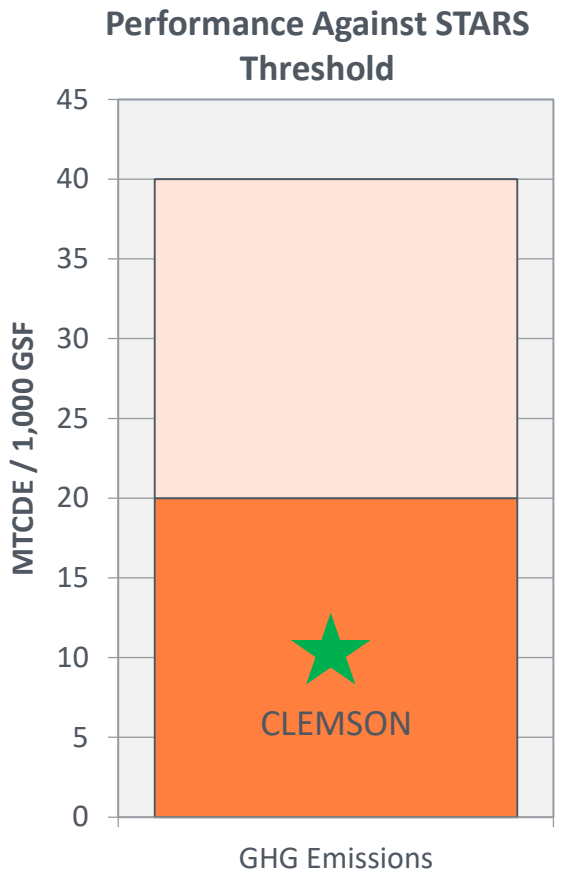
Air & Climate: Achievements

35%

Reduction of MTCDE/user from Baseline Year





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Air & Climate: Opportunities for Growth

- ✓Continue strategies to reduce emissions, particularly around Scope 2 (purchased electricity)
- ✓Establish independent formal policies to improve air quality and minimize air pollutants from mobile sources – i.e., anti-idling policy and powered lawn equipment.

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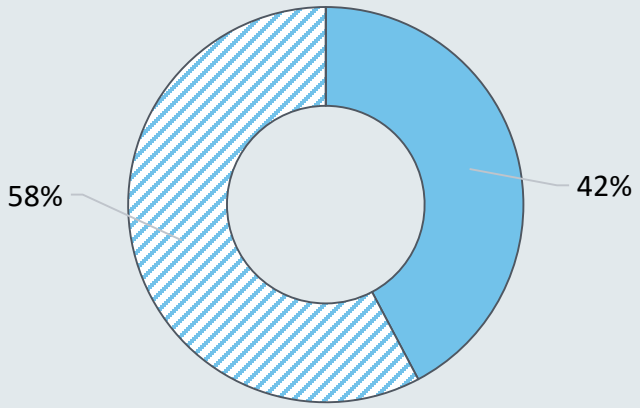
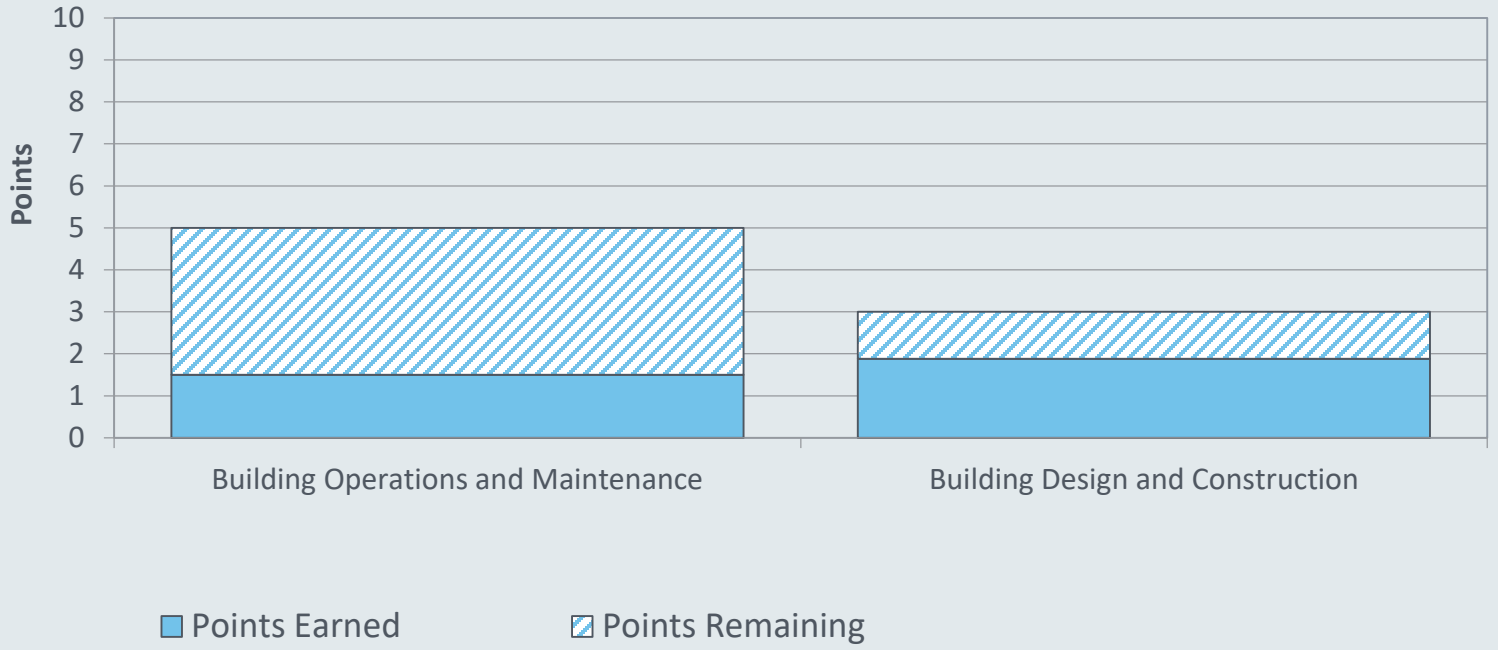
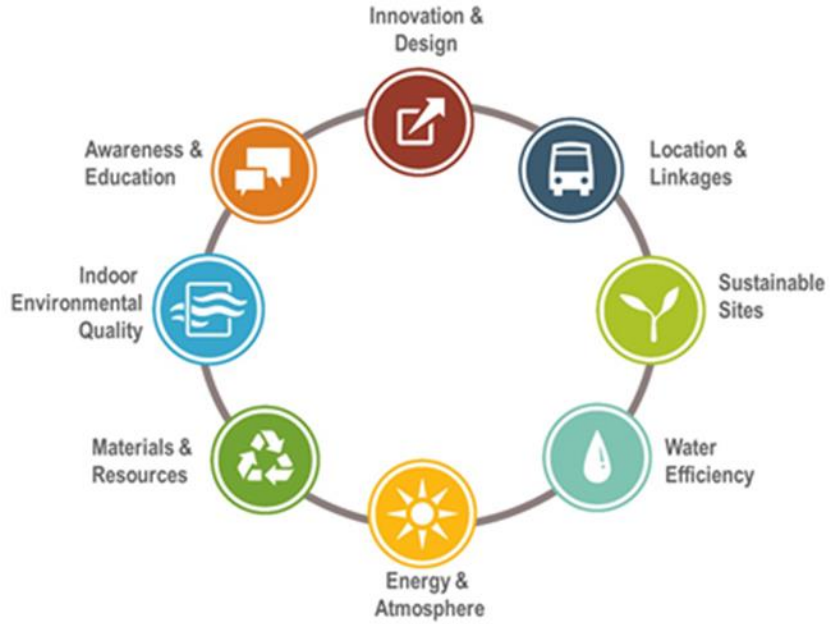
Buildings


58%
42%


10
9
8
7
6
5
4
3
2
1
0
Points
Building Operations and Maintenance
Building Design and Construction
Points Earned
Points Remaining

Buildings: Overview

- Operate & maintain buildings to environmental standards, e.g. LEED
- Operate & maintain buildings with sustainable operations to include IAQ, Green Cleaning Policies, Energy Management, Water Management or benchmarking.
- Recognizes the incorporation of environmental features into design and construction projects, and the pursuit of third party certification in new space.
- This includes LEED, the Living Building Challenge and green building codes.



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Buildings: Achievements

100%
of GSF

- ✓ Maintained in accordance with IAQ
- ✓ Maintained in accordance with Green Cleaning
- ✓ Maintained in accordance with energy management or benchmarking

100%
Newly constructed or renovated buildings adhered to a certified rating system

- ✓ Kingsmore Stadium Addition
- ✓ Watt Innovation Center - Construction
- ✓ Football Operation Facility – Construction
- ✓ Core Campus Development

SILVER

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Buildings: Opportunities for Growth

- ✓Establish LEED Building O&M practices.
- ✓Water Management or benchmarking program – i.e. dashboards, analytical tools to assess performance, set goals, create and implement action plans and evaluate progress.
- ✓Future construction and renovation projects will garner more points if built to a higher LEED standards (i.e. Gold instead of Silver).

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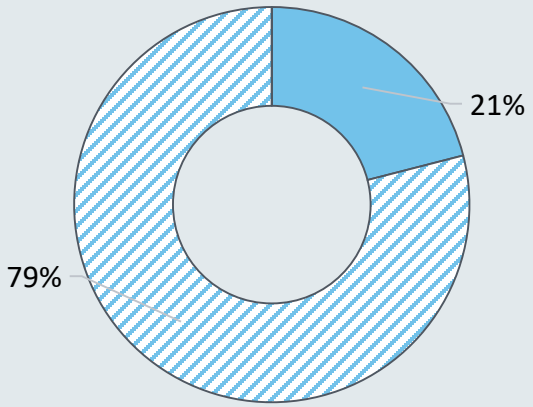
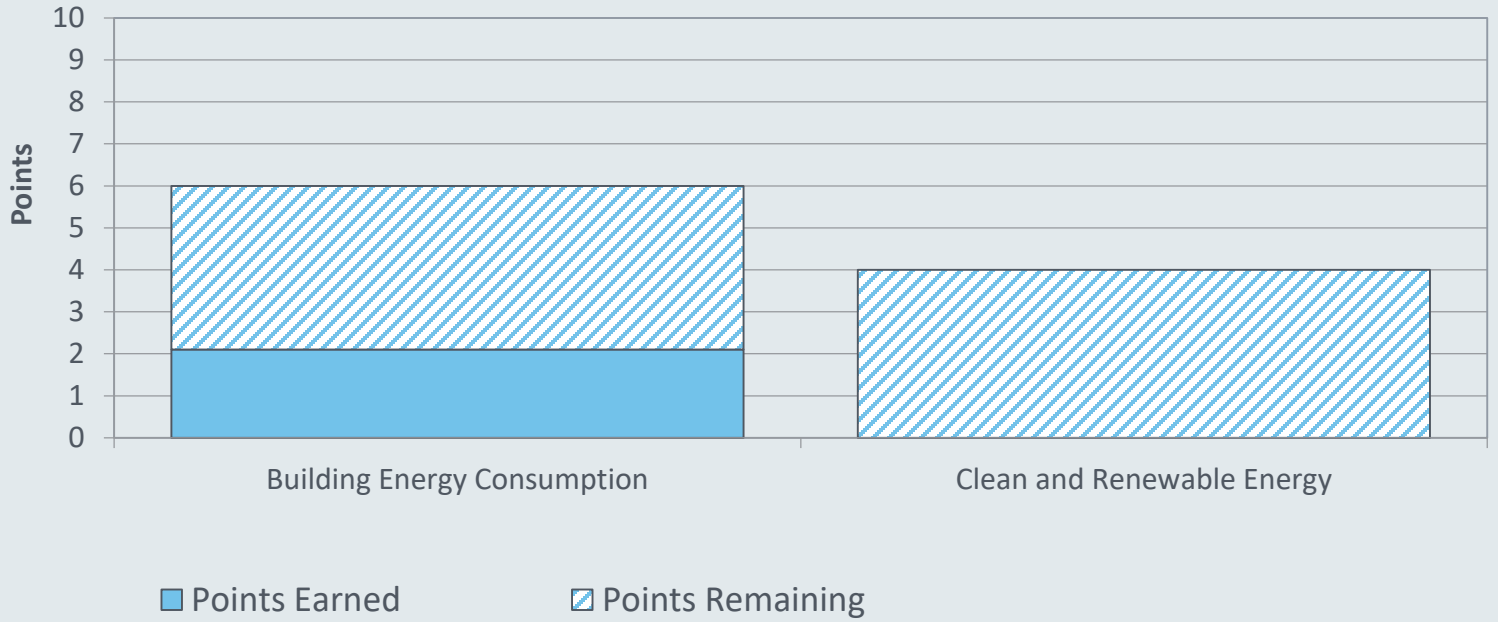
Energy


21%
79%


10
9
8
7
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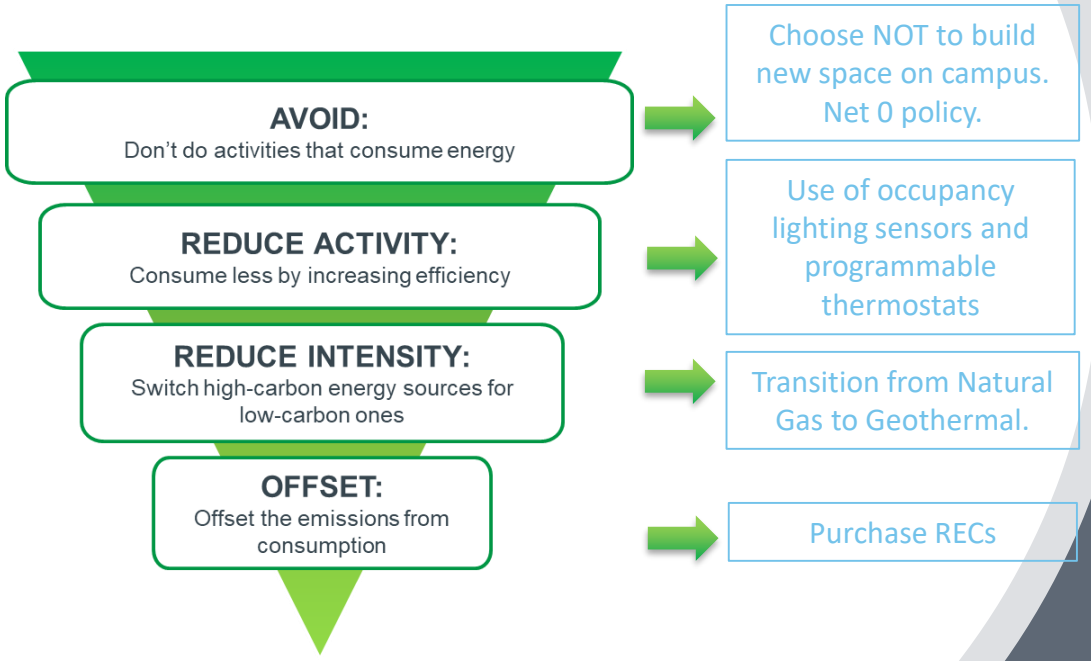
5
4
3
2
1
0
Points
Building Energy Consumption
Clean and Renewable Energy
Points Earned
Points Remaining

Energy's Role in Carbon Profile



Energy: Overview

- Reduce energy consumption per/GSF compared to baseline
- Energy consumption is less than the minimum STARS performance threshold
- Support energy from clean and renewable sources by:
  - Generating non-electric energy on campus
  - Catalyzing the development of off-site renewables
  - Purchasing third-party verified RECs or green power

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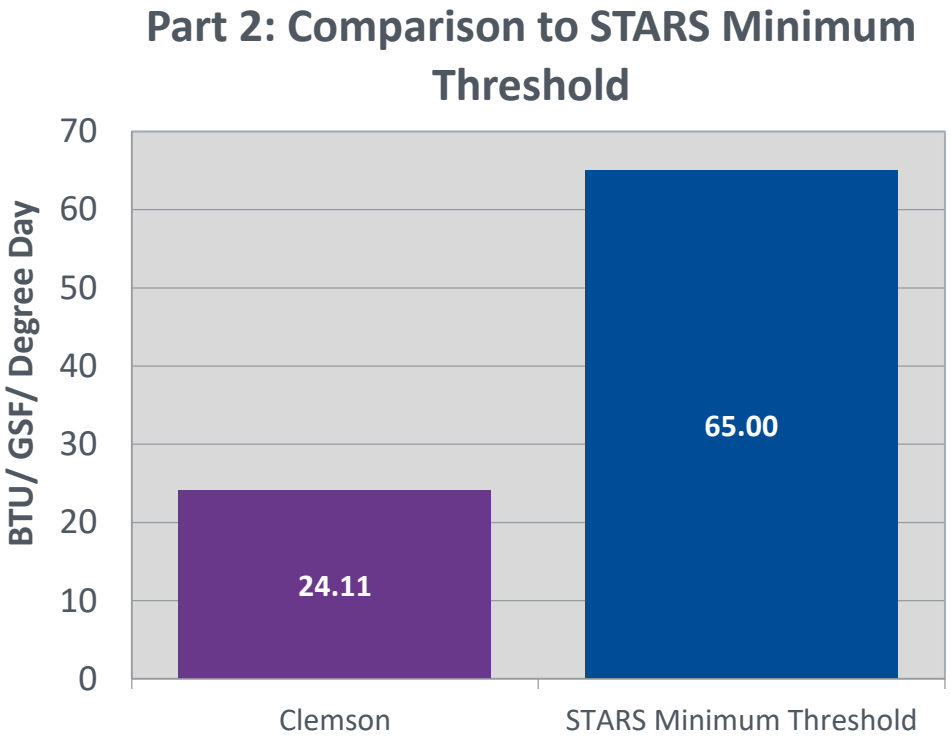
Energy: Achievements

On-site Renewables

- ✓ 777 MMBTU of clean and renewable energy generated on-site in FY17. This renewable generation represents <1% of total energy consumption at Clemson.



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Energy: Opportunities for Growth

- ✓Continue to strive for minimization of energy consumption on campus:
  - reduce the amount of energy purchased from the grid
  - increase on-site electric generation
  - reduce energy consumption from other sources (this increased by 33% from the baseline to performance)
- ✓Consider clean and renewable energy additions to the Clemson profile

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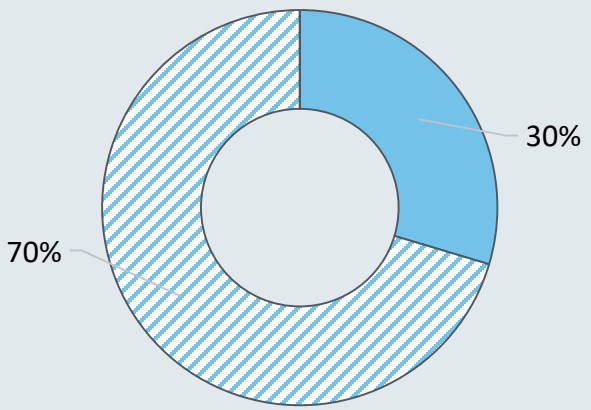
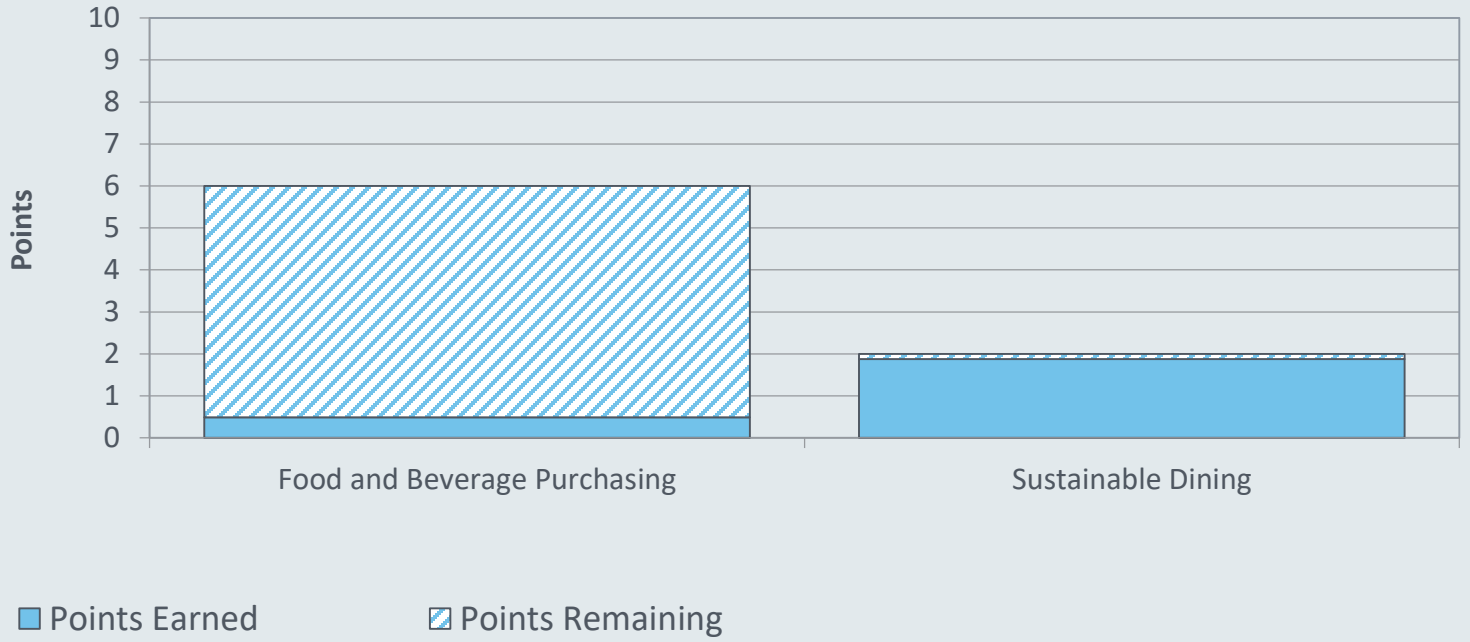
Food & Dining


30%
70%


10
9
8
7
6
5
4
3
2
1
0
Points
Food and Beverage Purchasing
Sustainable Dining
Points Earned
Points Remaining

Food & Dining: Overview

- Support sustainable food systems and minimize impacts to dining service operations:
    - Engage in a variety of on-campus activities to include a published sustainable dining policy, hosting a Farmers Market, etc.
- Minimize Food & Dining waste
- Conduct an inventory to identify food and beverage purchases which:
    - Third party verified, as recognized by a “Food & Beveridge sustainability standard”
    - Local & Community based. In the absence of third party certification, meets a set of standards.
- Minimize the purchase of conventional animal products. The total must be less than 30% of all dining purchases.

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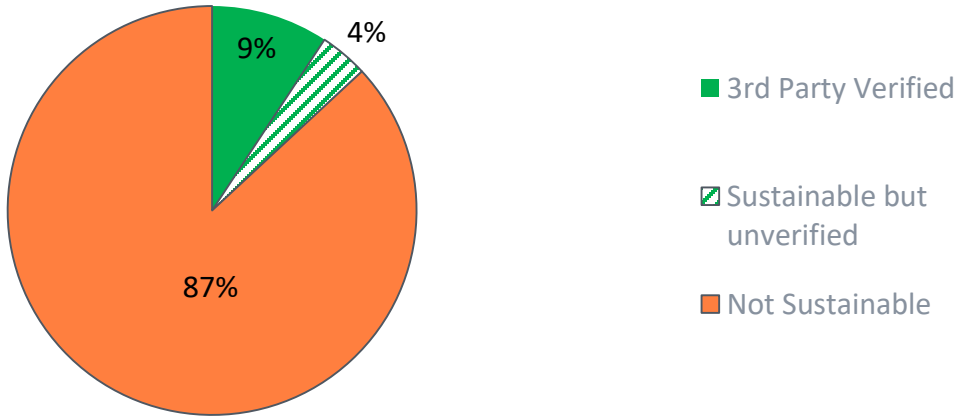
Food & Dining: Achievements

Food & Beverage Purchasing



- ✓ $4.1M in total dining purchases
- ✓ $2.1M spent on conventional animal products (49% of total dining purchases)
- ✓ .49/6 points earned

Programs Checklist	Clemson
On-Campus Sourcing	Yes
Community Engagement	**No**
Vegan Dining	Yes
Sustainability Themed Meals	Yes
Labeling & Signage	Yes
Outreach & Education	Yes
Food Recovery	Yes
Tray-less Dining	Yes
Food Donation	Yes
Food Waste Diversion	Yes
Composting	Yes

94%

Earned 1.88/2 STARS points

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Food & Dining: Opportunities for Growth

- ✓Increase food and beverage spending on 3rd party verified and/or local and community based products
  - ✓Work with your sourcing manager
  - ✓Set % goals for incremental change
  - ✓Engage students as “Data Managers” to track progress

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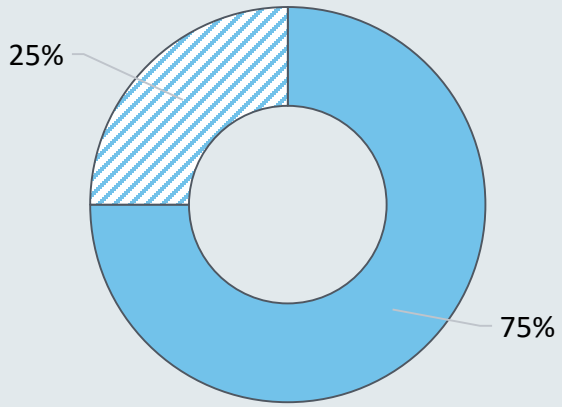
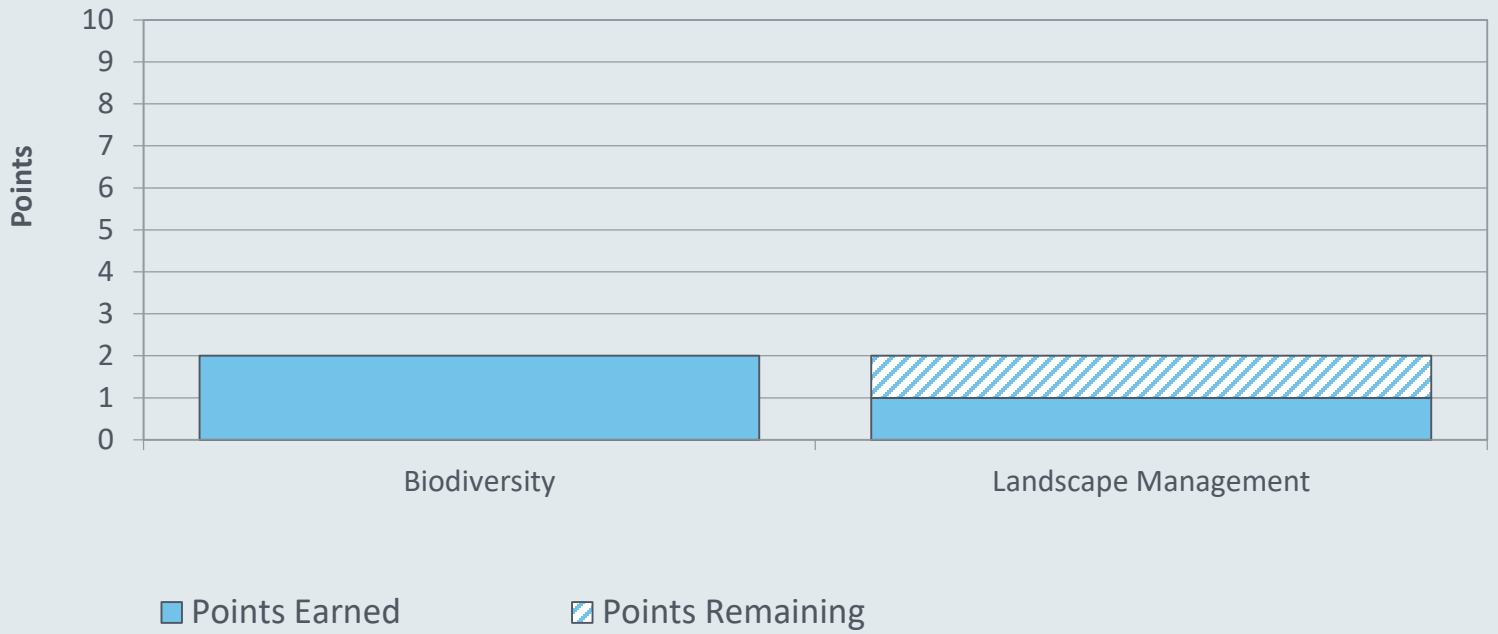
Grounds

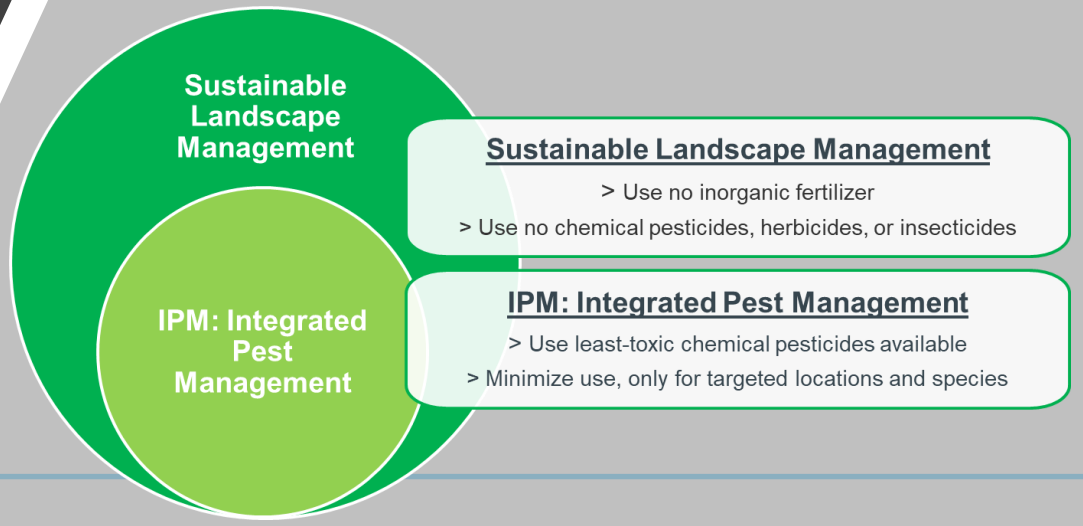

25%
75%


Points
10
9
8
7
6
5
4
3
2
1
0
Biodiversity
Landscape Management
Points Earned
Points Remaining

Grounds: Overview

- Grounds Management is in accordance with either an Integrated Pest Management program or an organic land care standard that has eliminated the use of inorganic fertilizers and chemicals pesticides, fungicides and herbicide in favor of ecologically preferable materials
- Clemson conducts an assessment to identify endangered and vulnerable species and/or identify environmentally sensitive areas on institution-owned or managed land

Preferred: Low-Impact Land Preservation



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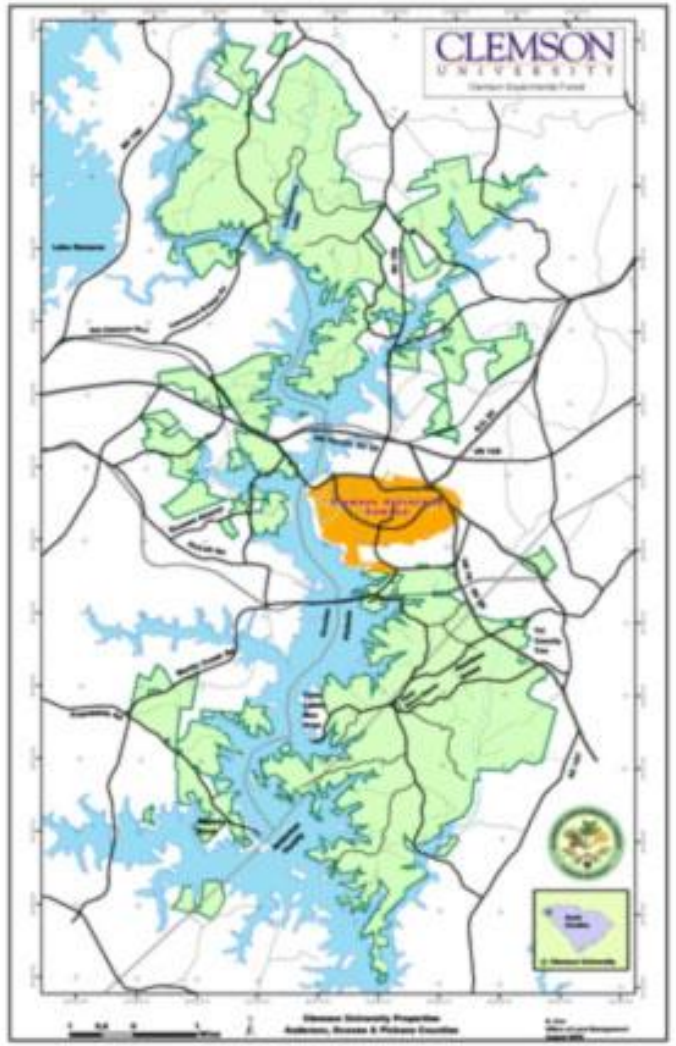
Grounds: Achievements

Landscape Management

100%

Landscape Management under IPM

- ✓ Covers 558 acres of managed grounds
- ✓ Earns 1/2 STARS points



- ✓ Designated & Certified in the SFI Forestry Partners: South Carolina
- ✓ Meets objectives in Forest Management Planning, Forest Health & Productivity, Protection & Maintenance of Water Resources, and Conservation of Biological Diversity & Protection of Special Sites

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Grounds: Opportunities for Growth

- ✓Implement a phased organic landscape management program:
  - ✓Health: OLC should enhance the health of soil, water, air, plant, animal, human and planet
  - ✓Ecology: OLC should be based on ecological systems and cycles, work with and sustain them
  - ✓Care: OLC should be managed in a manner that protects the health of current and future generations
  - ✓Fairness: OLC should build on relationships that ensure fairness with regard to the common environment

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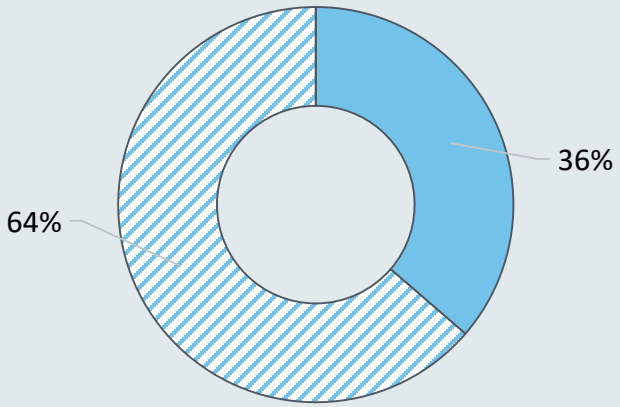
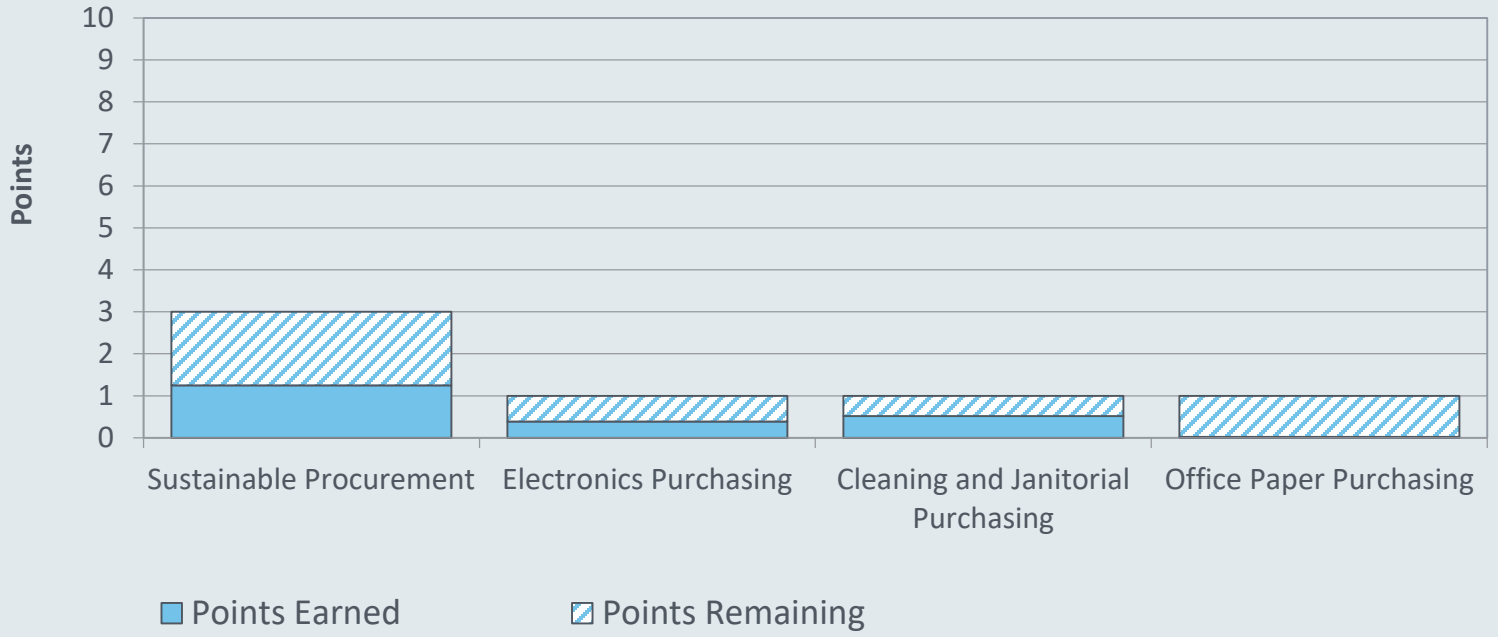
Purchasing


36%
64%


Points
10
9
8
7
6
5
4
3
2
1
0
Sustainable Procurement
Electronics Purchasing
Cleaning and Janitorial Purchasing
Office Paper Purchasing
Points Earned
Points Remaining

Purchasing: Overview

- Written policies, guidelines or directives to support sustainable purchasing across commodity categories
- Employment of Life Cycle Cost Analysis for energy and water-using products, systems & building components
- Purchase EPEAT registered products
- Main cleaning or housekeeping department/contractor purchase cleaning and janitorial paper products that meet sustainable certifications
- Purchases office paper with post-consumer recycled, agricultural residue, and/or Forest Stewardship Council (FSC) certified content

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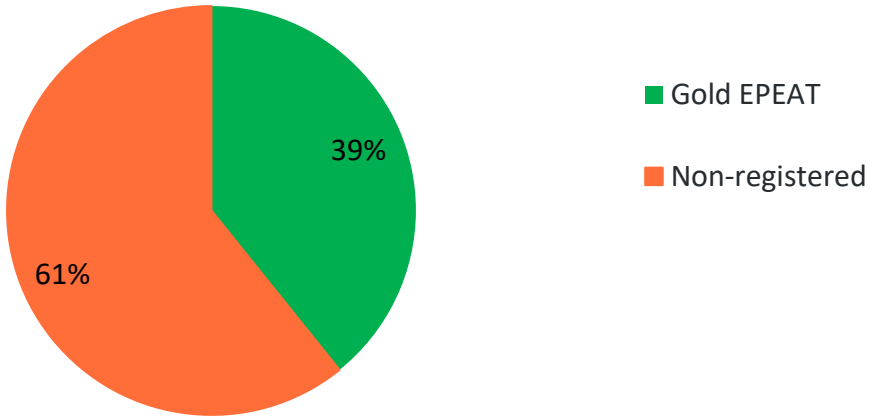
Purchasing: Achievements

Electronics Purchasing



- ✓ $4.3M expenditure on electronics
- ✓ Earn .39/1 STARS credit

52%

Certified cleaning & janitorial products

- ✓ $456K was spent on cleaning products, and 37% are GreenSeal, UL Ecologo and US EPA Safer Choice
- ✓ $152K was spent on janitorial paper products, and 96% are GreenSeal and US EPA Safer Choice

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Purchasing: Opportunities for Growth

- ✓Create a formalized sustainable purchasing policy that includes specific criteria for commodities (i.e. disadvantaged and/or community-based businesses)
- ✓Increase spending, as a %, on EPEAT registered electronics
- ✓Increase spending, as a %, on certified cleaning products
- ✓Currently, 95% of office paper purchases are non-qualified. Clemson should consider an incremental transition to more post-consumer recycled content

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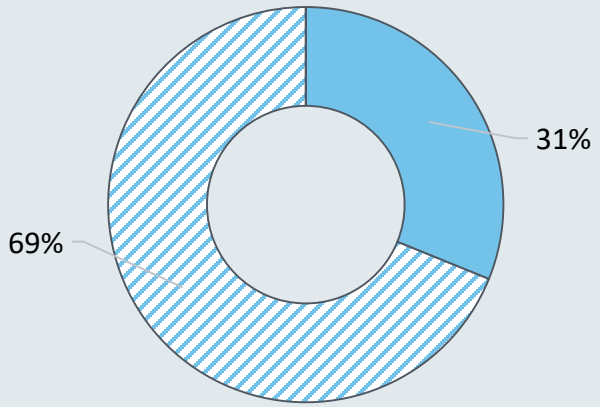
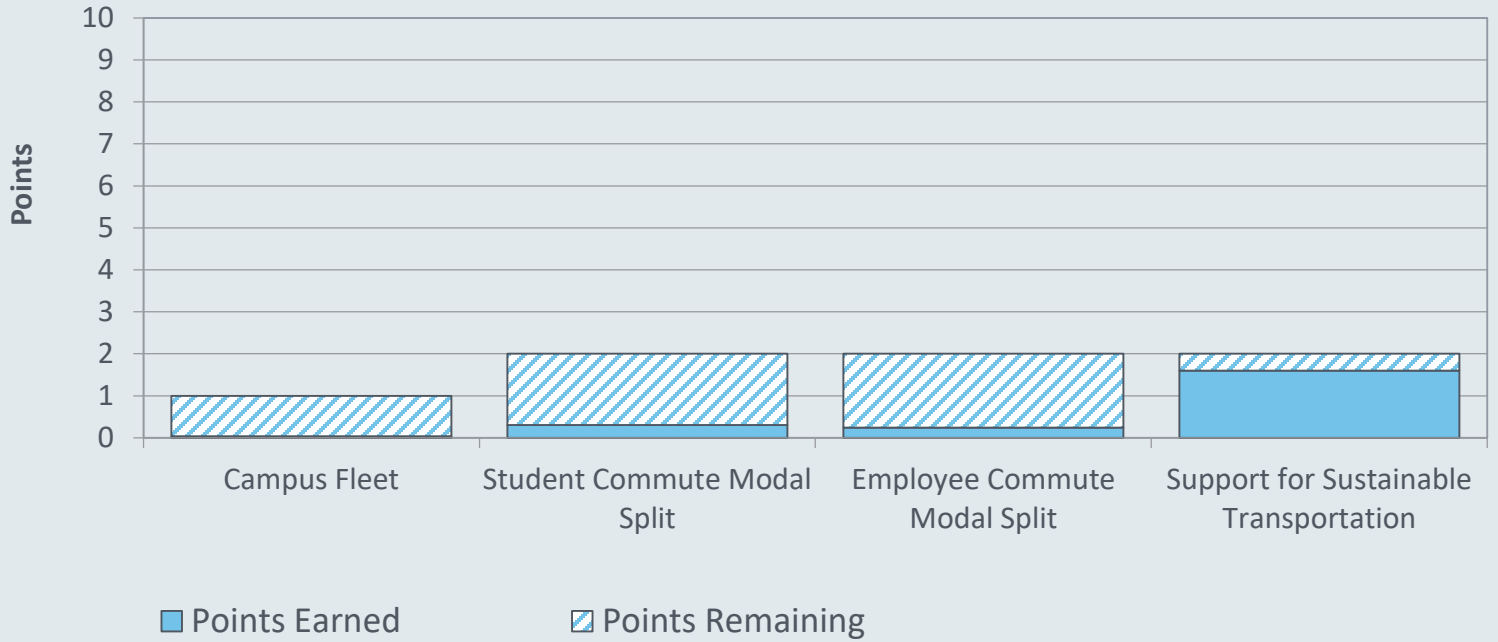
Transportation

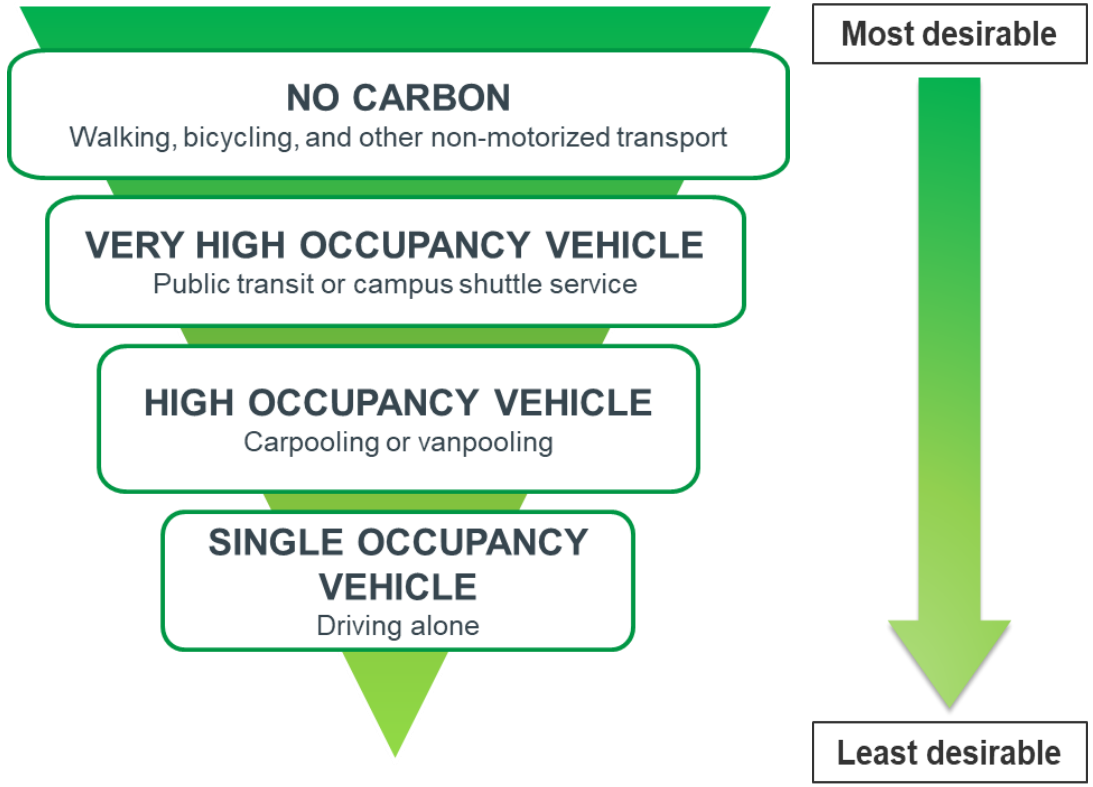




Transportation: Overview

- Clemson supports strategies to encourage more sustainable modes of transportation and reduce impact of commuting
- Utilize alternative fuel and power technology in motorized fleet
- Students and employees commuting to and from campus use more sustainable commuting options such as walking, bicycling, carpooling, campus shuttle, etc.

Transportation's Role in Carbon Profile



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Transportation: Achievements

Strategies Checklist	Clemson
Secure bike storage, lockers, and showers accessible to all bike commuters	Yes
Short-term bicycle parking for all occupied buildings	No
Bike/pedestrian safety plan or policy (ex. "complete streets" or bicycle accommodation policy)	Yes
Bike-share program	Yes
Level 2 or Level 3 electric vehicle recharge station	No
Free or reduced-price transit passes, and/or campus shuttle service	Yes
Guaranteed return-trip program	No
Car/vanpool or ride-sharing program, and/or reduced parking fees or preferential parking for car/vanpoolers	Yes
Telecommuting policy	Yes
Car-sharing program (ex. Zipcar, or something similar administered locally)	Yes
Other: Preferential parking spaces for employees with Low Emissions Vehicle permits; Clemson ReCyclery	Yes

15%
students commute primarily using sustainable transport

12%
employees commute primarily using sustainable transport

CLEMSON performance:
8/11
programs offered

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Transportation: Opportunities for Growth

- ✓Purchase alternative fuel vehicles when replacing campus fleet vehicles to increase total percentage on campus
- ✓Increase awareness of commuting programs on campus so both students and employees know options available that support sustainable modes of transportation
- ✓Conduct a new Commuting Survey for the next iteration of STARS and/or the GHG inventory

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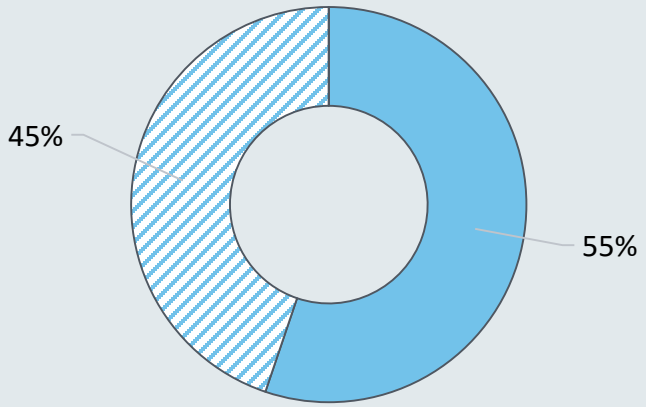
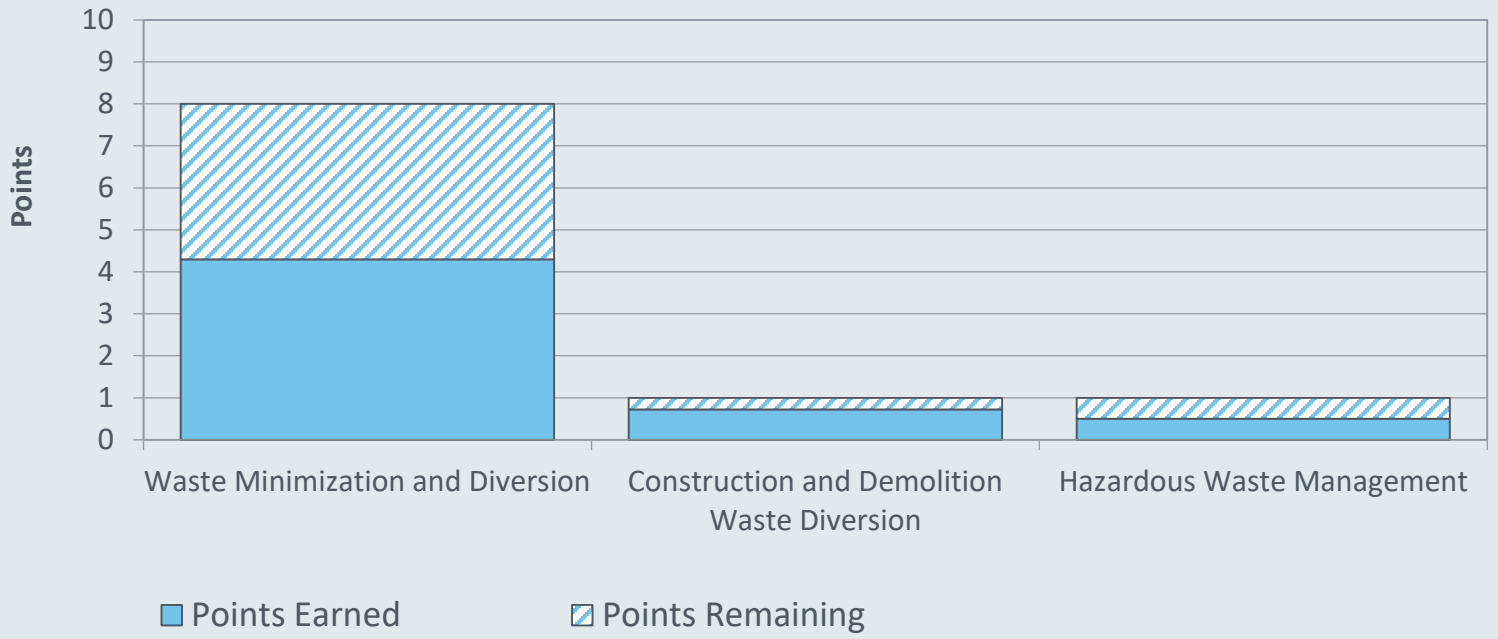
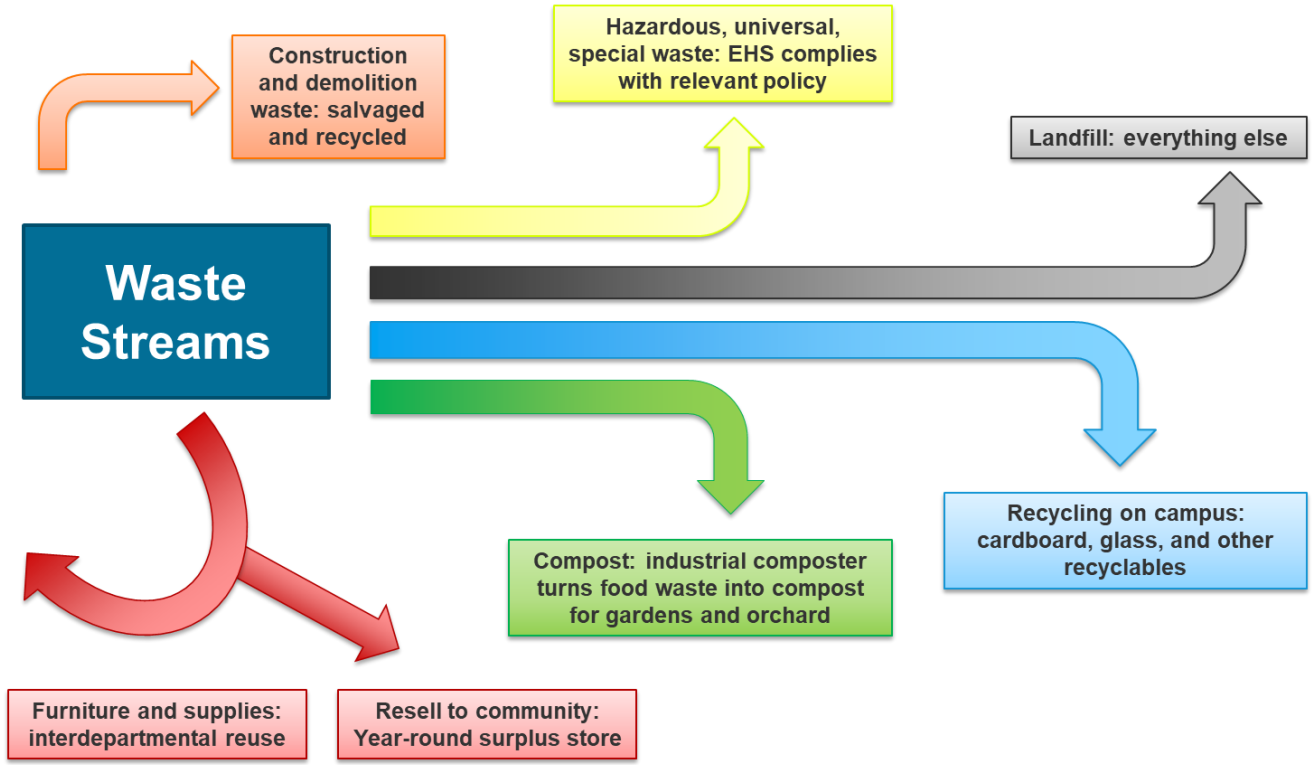
Waste


45%
55%


Points
10
9
8
7
6
5
4
3
2
1
0
Waste Minimization and Diversion
Construction and Demolition Waste Diversion
Hazardous Waste Management
Points Earned
Points Remaining

Waste: Overview

- Implement a source reduction strategy to reduce total waste generated on campus
- Divert non-hazardous construction and demolition waste from the landfill
- Strategies to properly dispose of hazardous waste and seeks to minimize presence of hazardous waste and materials on campus
- Program in place to recycle, reuse, and/or refurbish electronic waste generated by institution and students



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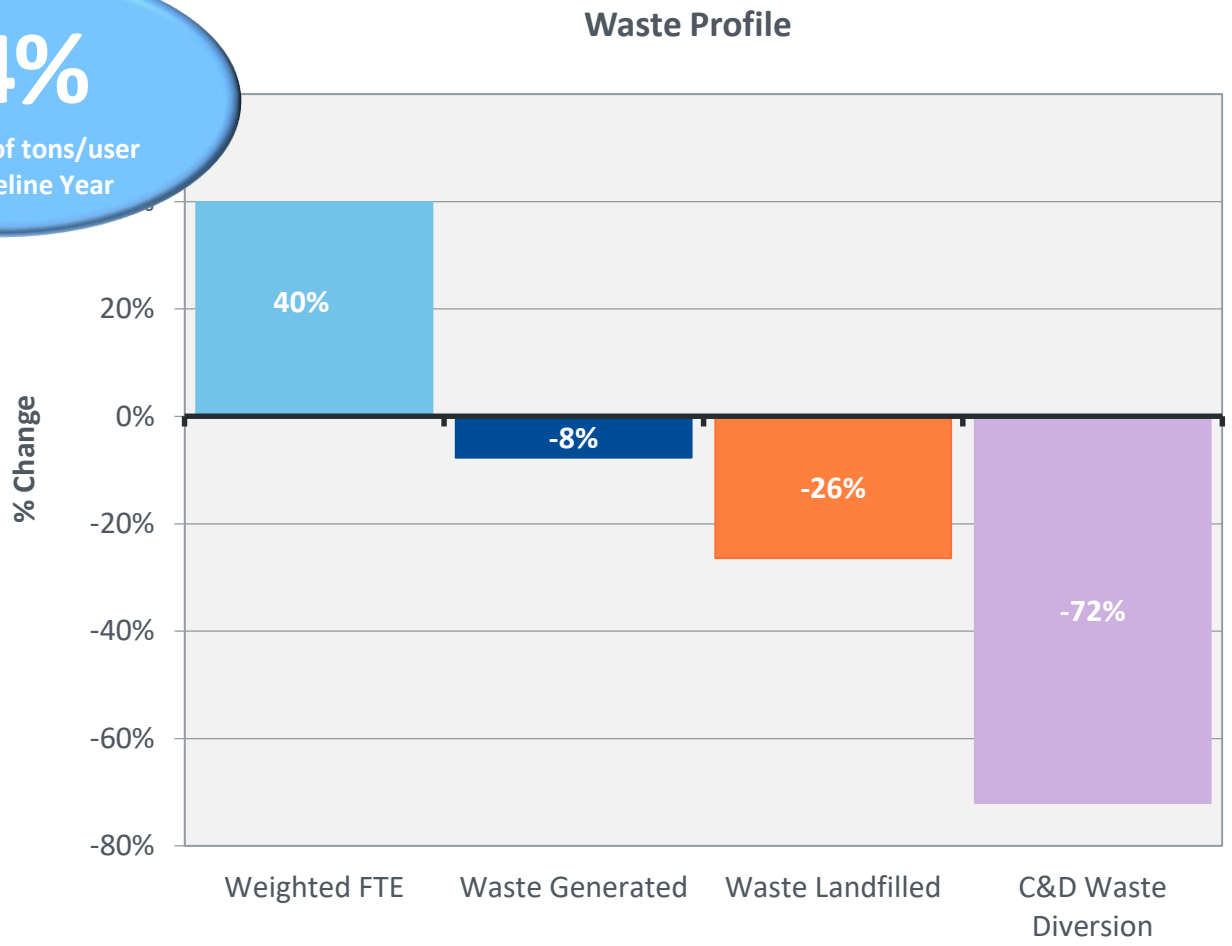
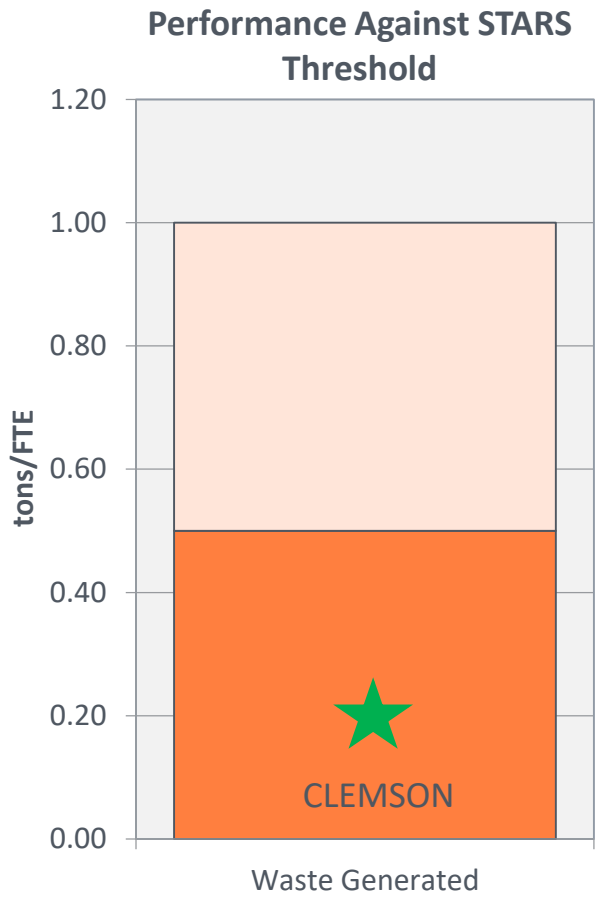
Waste: Achievements

34%

Reduction of tons/user from Baseline Year





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Waste: Opportunities for Growth

- ✓ Implement campus-wide electronic waste program for students and employees. This will increase total waste recycled and lower the overall waste generated
- ✓ Continue to make strides toward a goal of 100% waste diversion

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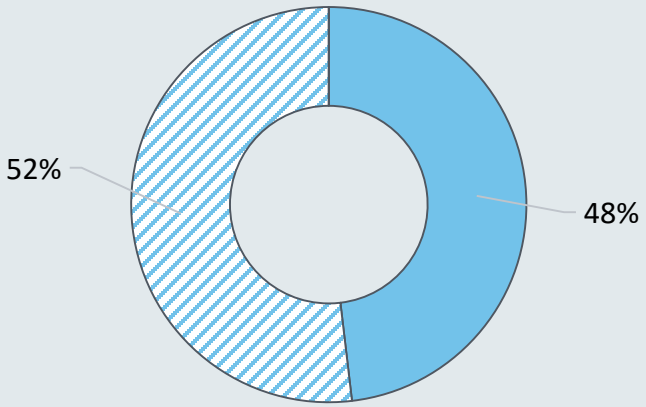
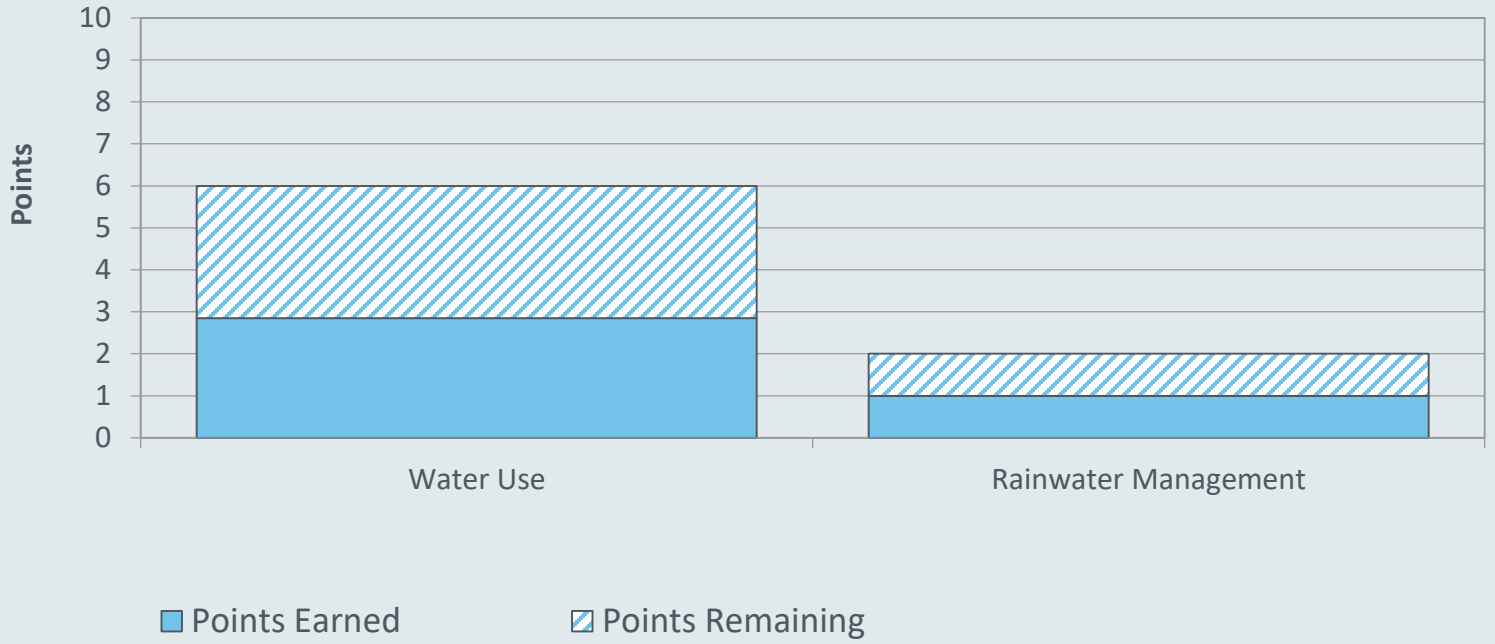
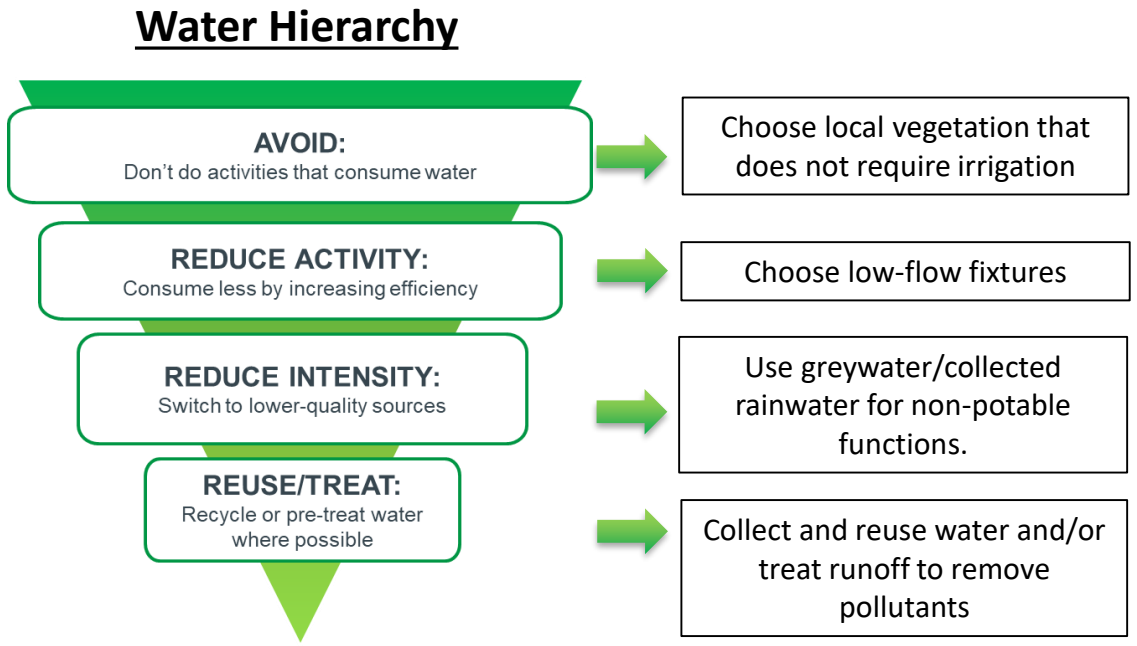
Water


52%
48%


Points
10
9
8
7
6
5
4
3
2
1
0
Water Use
Rainwater Management
Points Earned
Points Remaining

Water: Overview

- Reduction of potable water per campus user compared to baseline
- Reduction of potable water per GSF compared to baseline
- Reduction of total water use per acre compared to baseline
- Use green infrastructure and low impact development to help mitigate stormwater run-off impacts and treat rainwater as a resource



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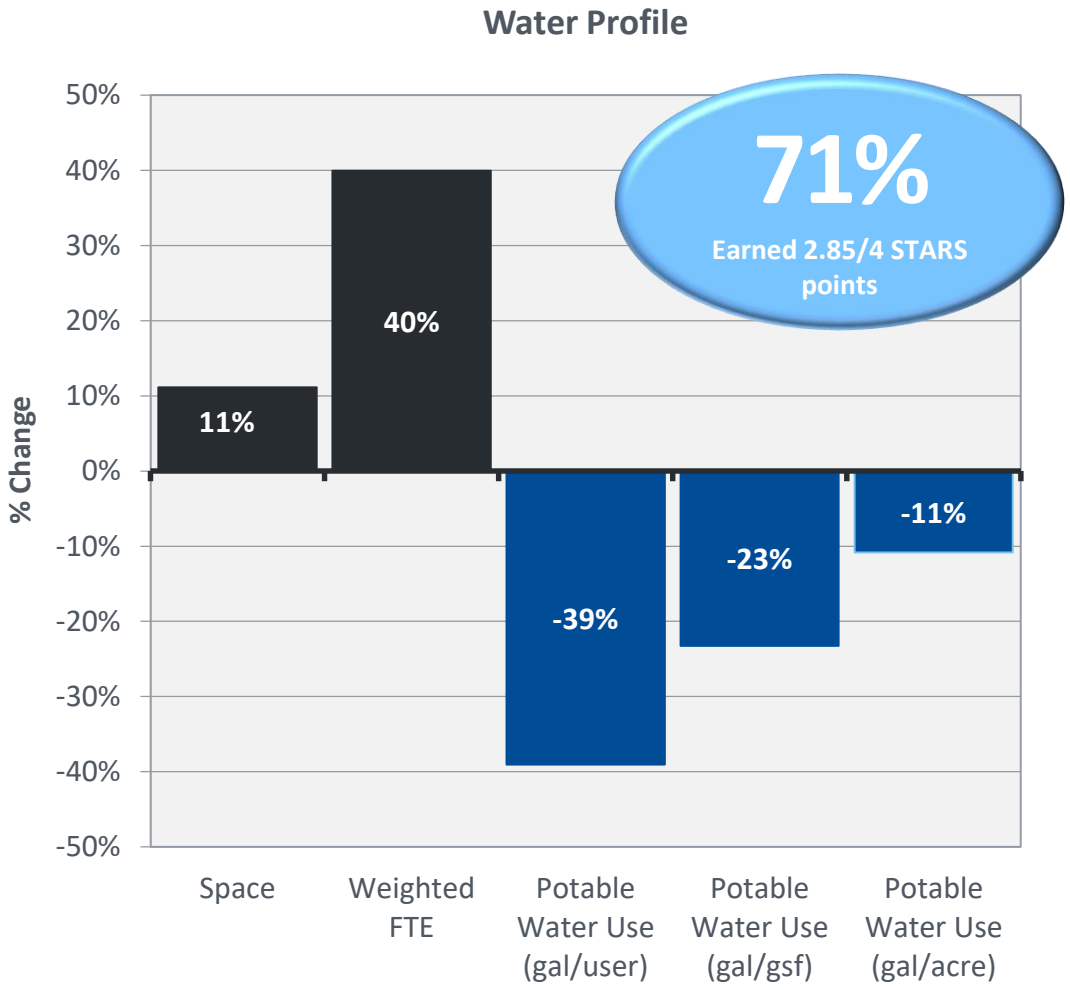
Water: Achievements



Policy 17 & Rainwater Management Features

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Water: Opportunities for Growth

- ✓Continue the expansion of the strong Rainwater Management policy – “Policy 17”
- ✓Set goals to implement comprehensive rainwater management policies that:
  - ✓ incorporate green infrastructure
  - ✓cover the entire campus
  - ✓mandate use of Low Impact Development (LID) practices for all major construction/renovation projects
- ✓Track progress to goals

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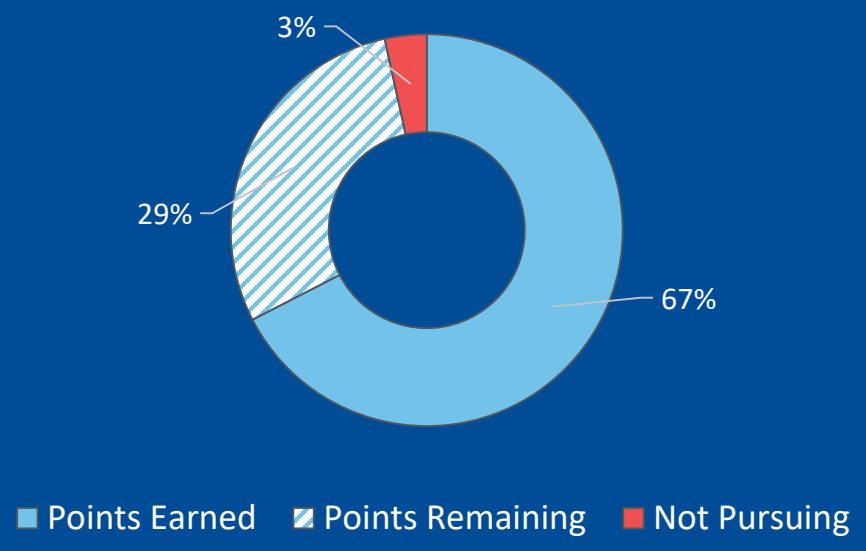
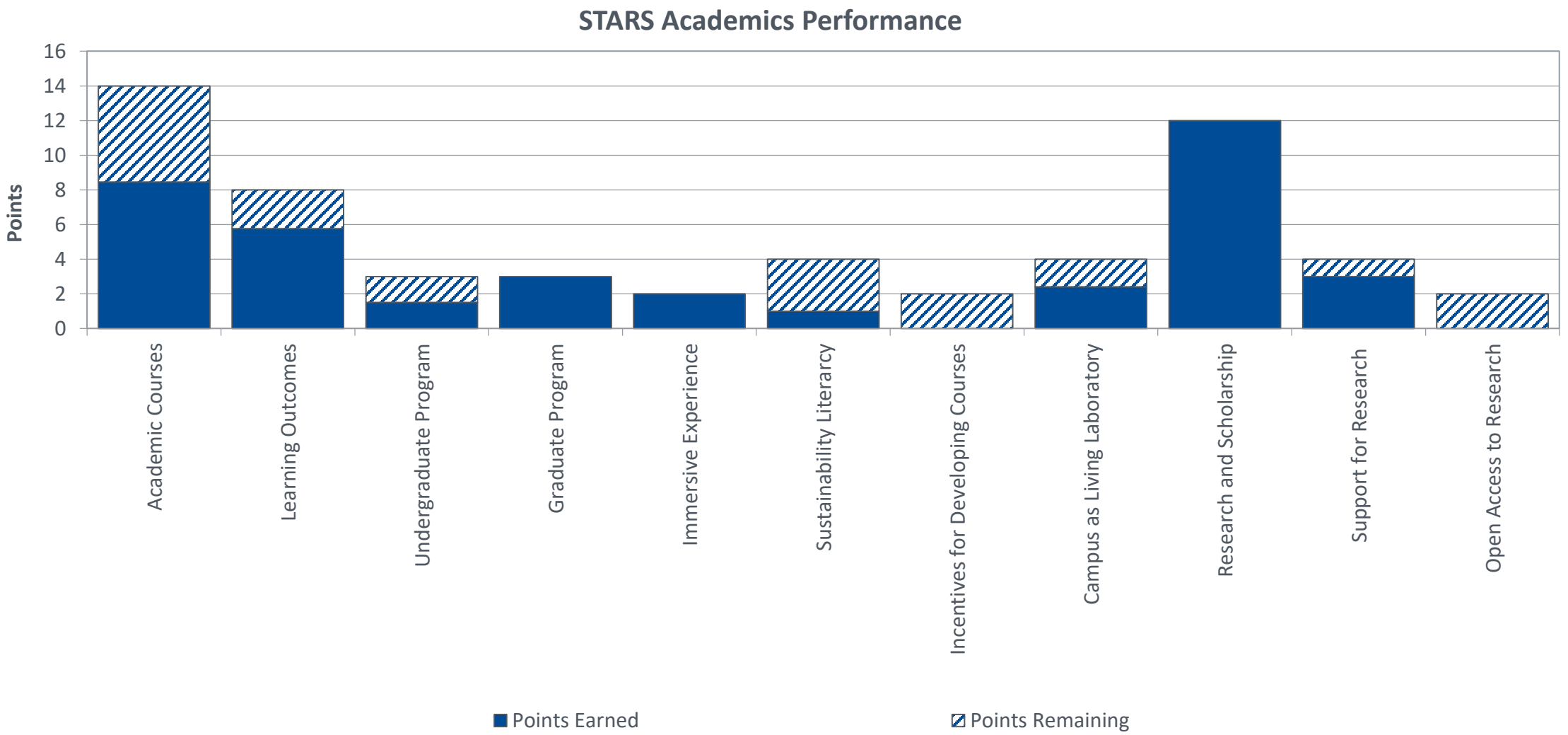
CLEMSON UNIVERSITY

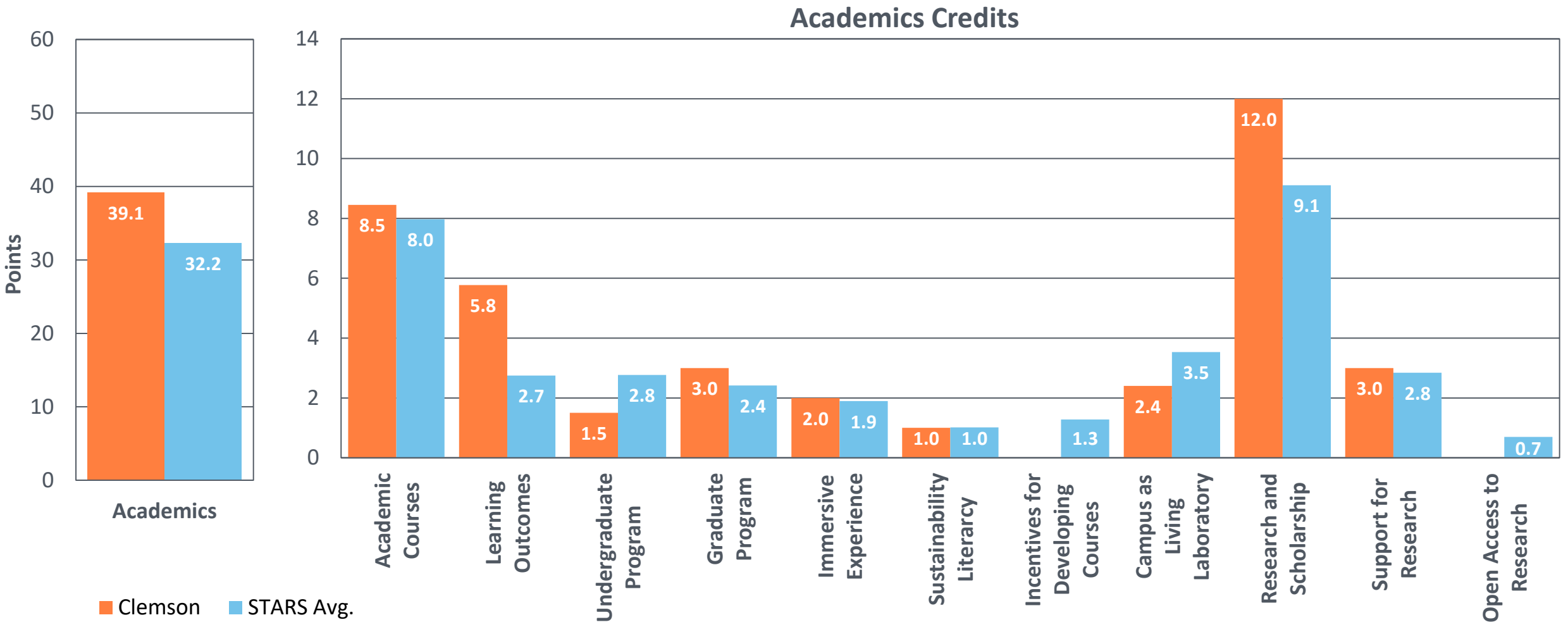
Academics



Academics Summary



Academics: Clemson vs. Average



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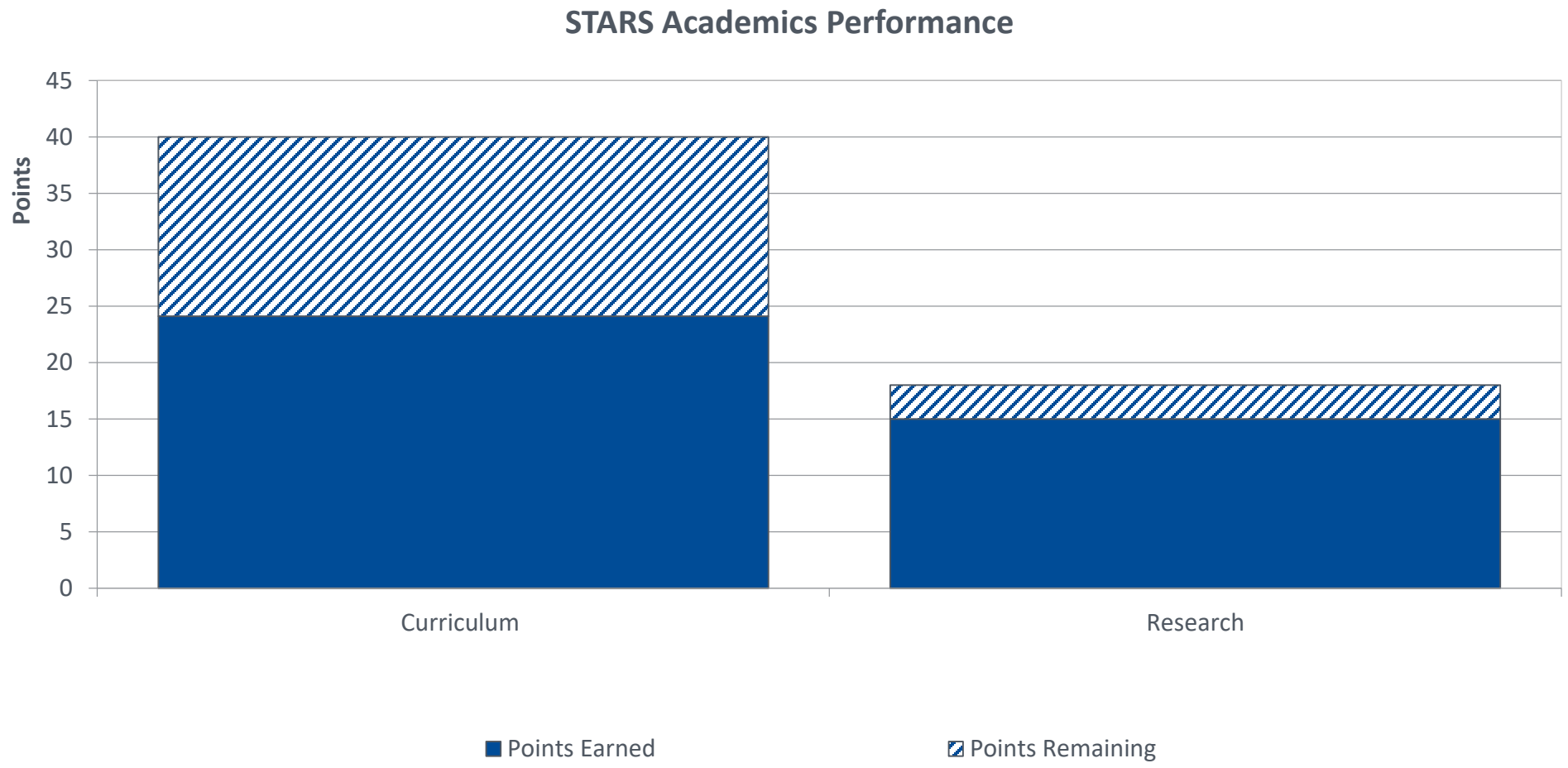
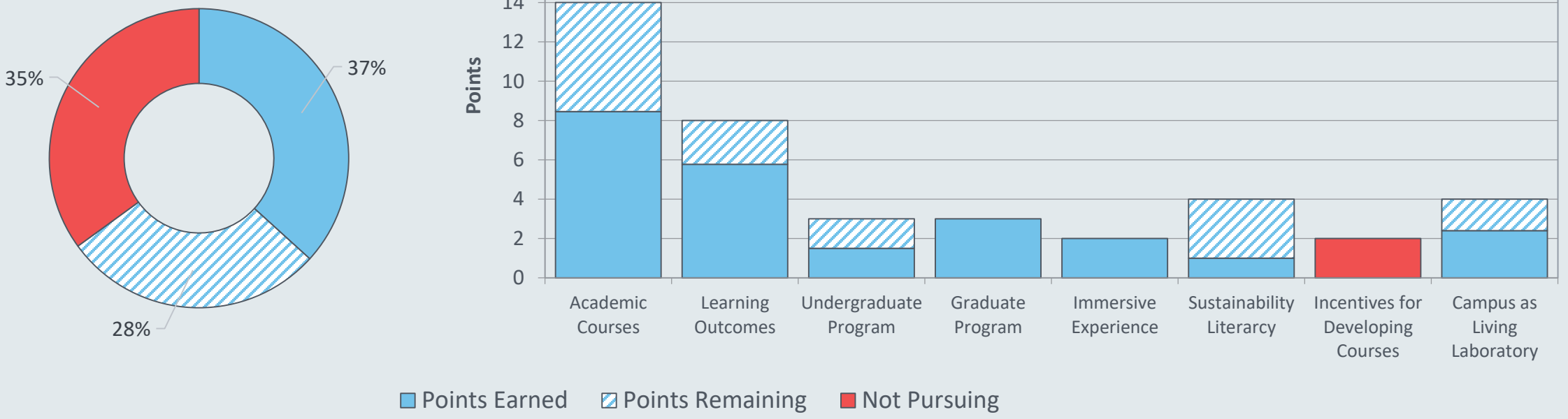
Clemson Academics Performance By Category



Back to Score per Section

Curriculum


35%
37%
28%
16
14
12
10
8
6
4
2
0
Points
Academic Courses
Learning Outcomes
Undergraduate Program
Graduate Program
Immersive Experience
Sustainability Literarcy
Incentives for Developing Courses
Campus as Living Laboratory
Points Earned
Points Remaining
Not Pursuing

Curriculum: Overview

- Sustainability courses offered at the undergraduate and graduate level
- Degree programs that include sustainability and the number of students graduating from them
- Immersive, sustainability-focused educational study program
- Program that offers incentive for faculty to develop new sustainability courses and/or incorporate sustainability into existing departments
- Campus used as a living environment for multidisciplinary learning and applied research

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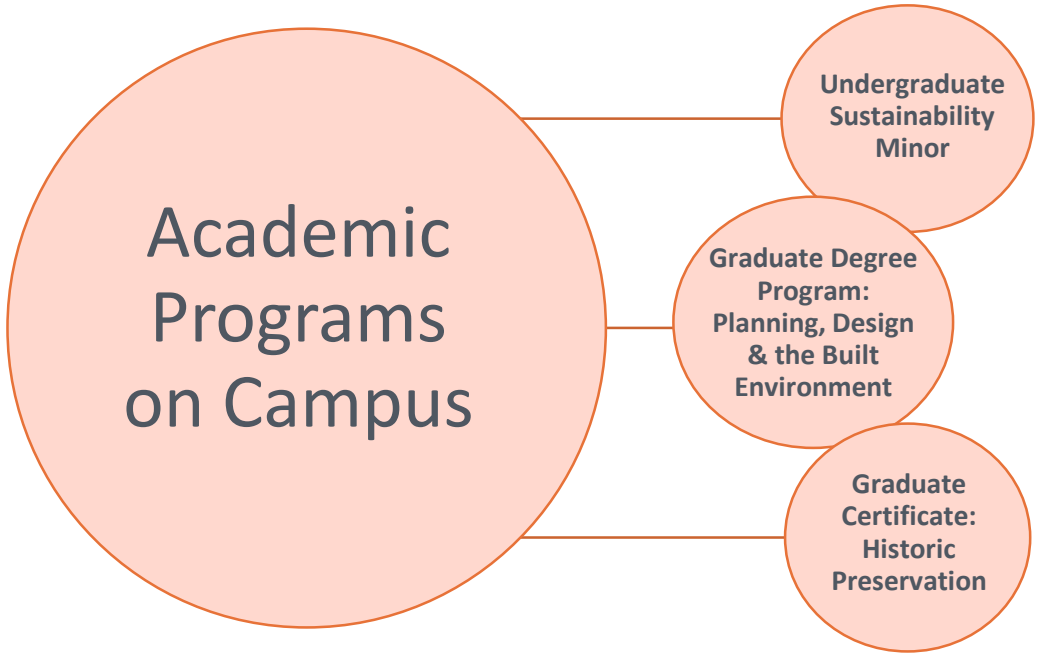
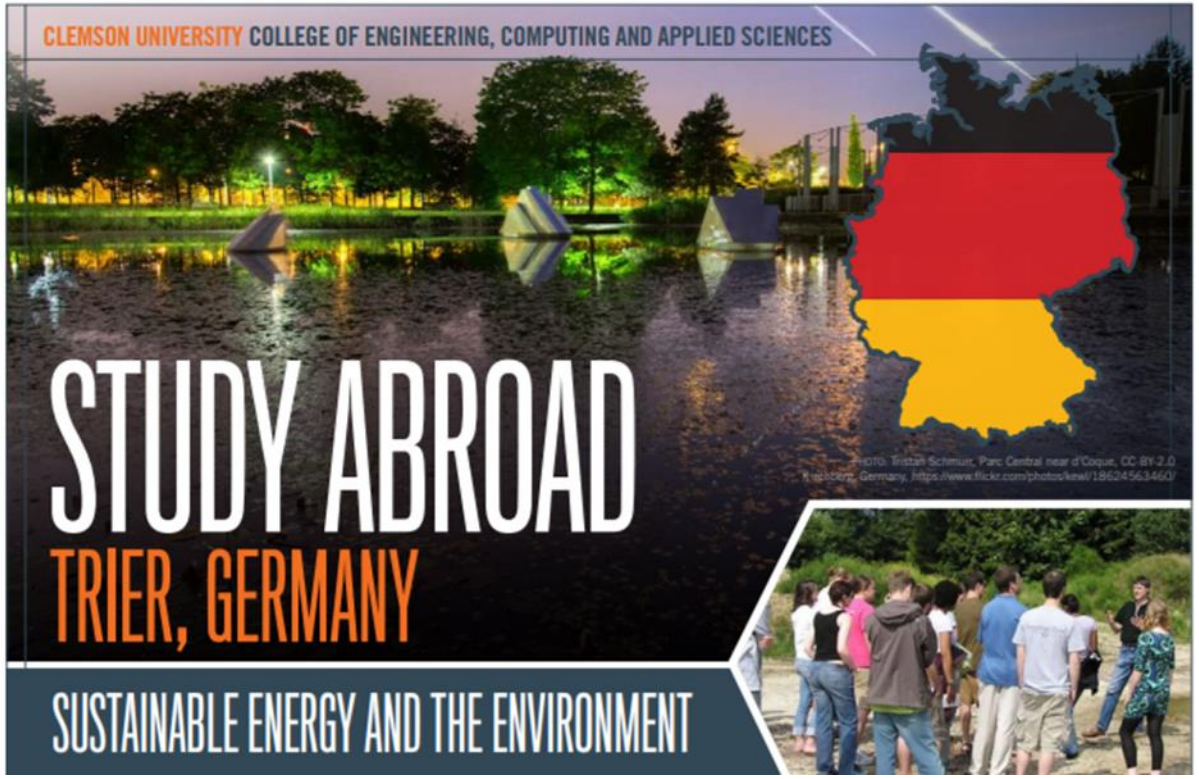
Curriculum: Achievements





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Curriculum: Achievements

Using campus as a living laboratory

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Curriculum: Opportunities for Growth

- ✓ Develop a sustainability literacy assessment that includes the social, economic and environmental challenges around sustainability.
- ✓ Explore incentives for faculty to develop sustainability courses. This includes release time, funding for professional development & research, as well as grants for summer study.

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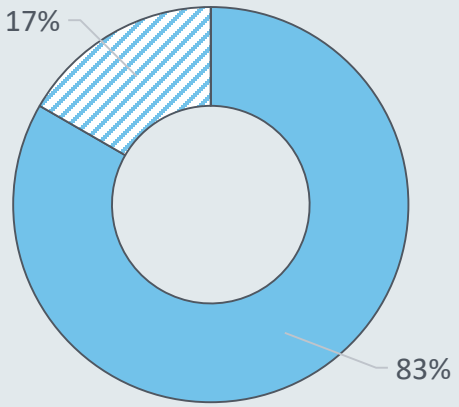
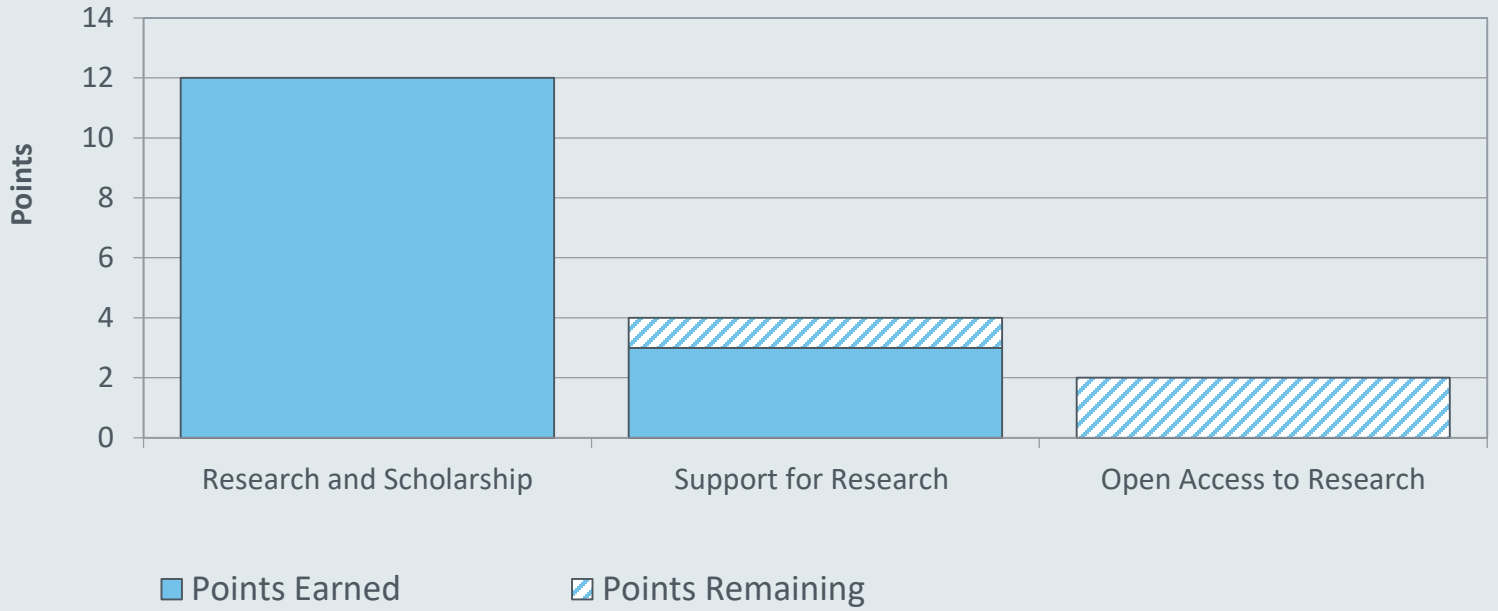
Research


17%
83%


14
12
10
8
6
4
2
0
Points
Research and Scholarship
Support for Research
Open Access to Research
Points Earned
Points Remaining

Research: Overview

- Assess the % of total faculty and departments conducting sustainability research.
- Programs in place to encourage faculty and/or students to conduct sustainability research.
- Published open access policy that ensures that versions of future scholarly articles by faculty and staff are deposited in a designated open access repository.

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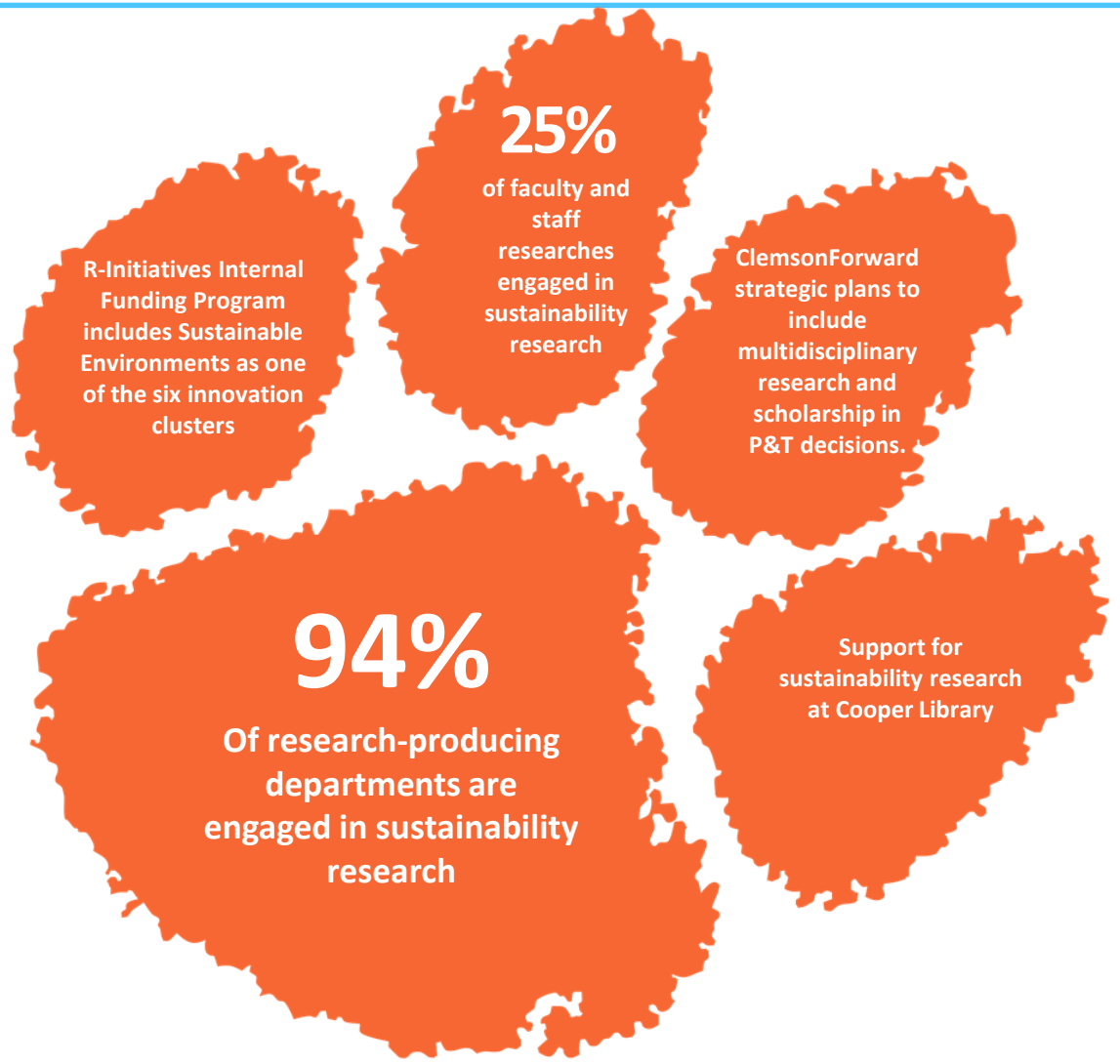
Research: Achievements



- ✓ All tenure and tenure-track faculty are expected to conduct research

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Research: Opportunities for Growth

- ✓ Implement ClemsonForward strategic plan to include multidisciplinary research in promotion and tenure decisions
- ✓ Implement a program to encourage students in multiple disciplines or academic programs to conduct research in sustainability

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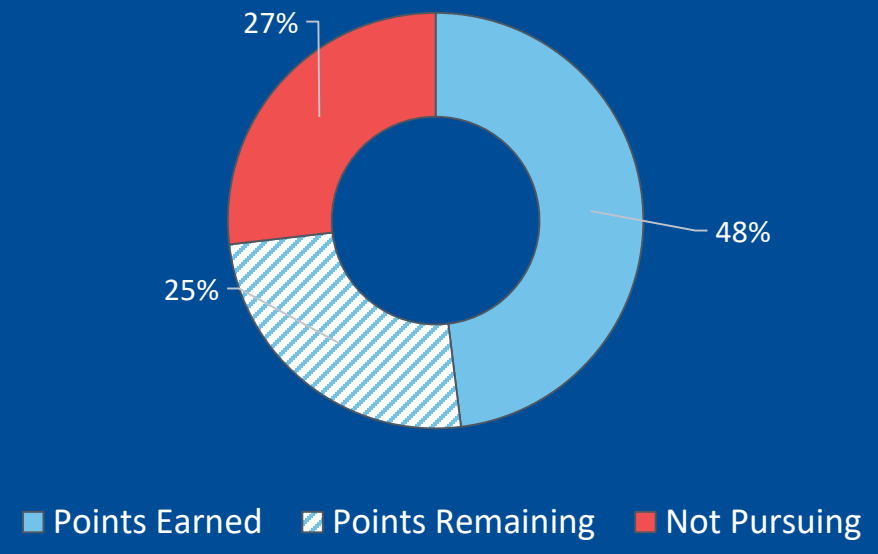
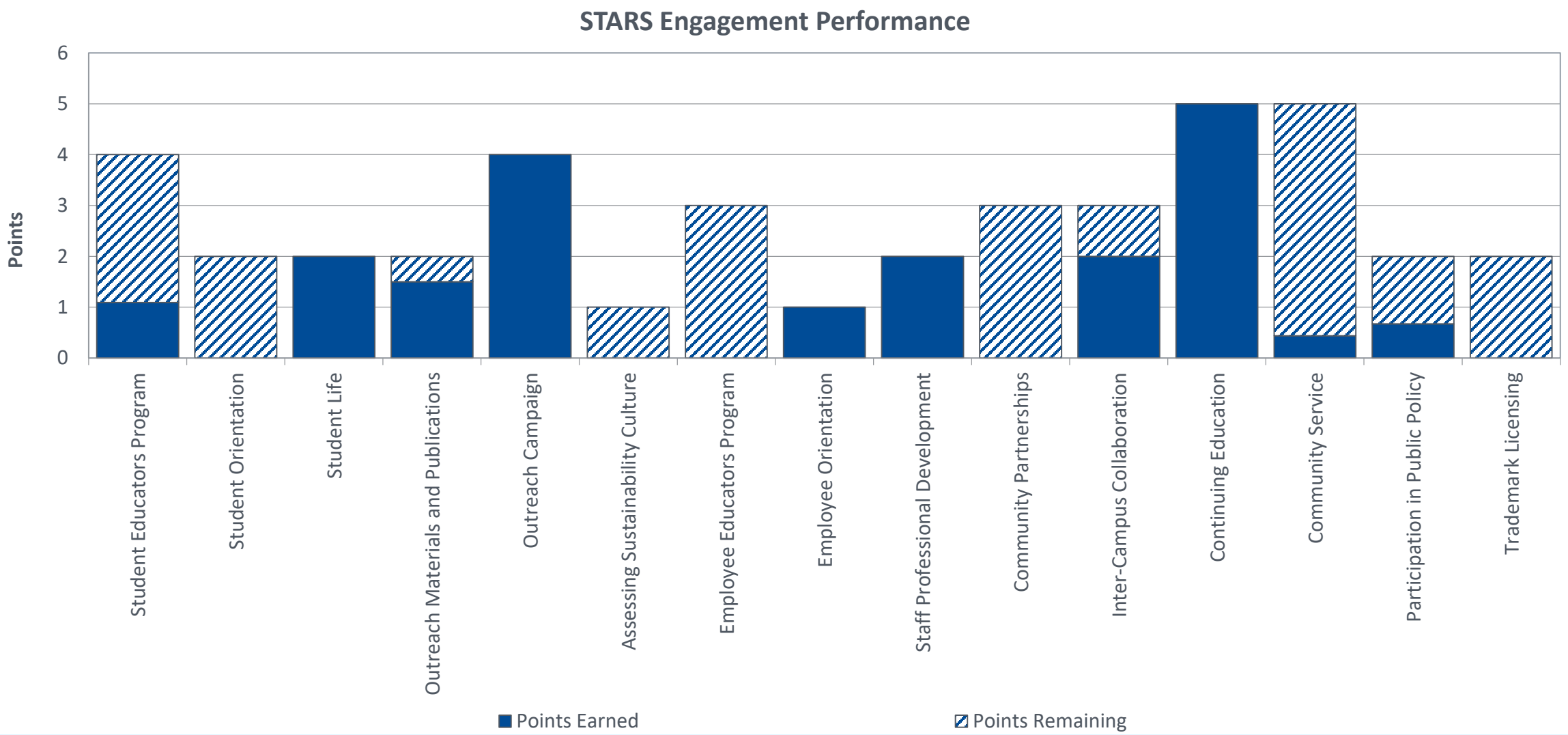
CLEMSON UNIVERSITY

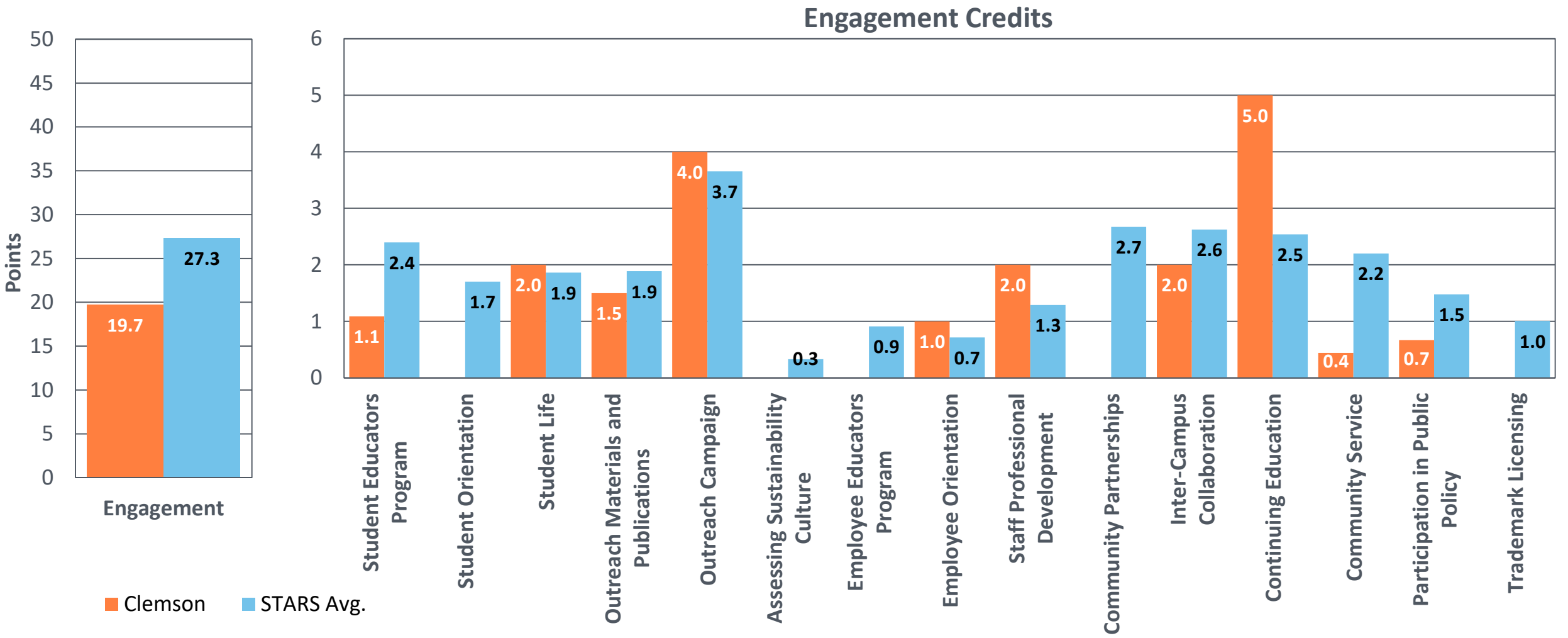
Engagement



Engagement Summary



Engagement: Clemson vs. Average



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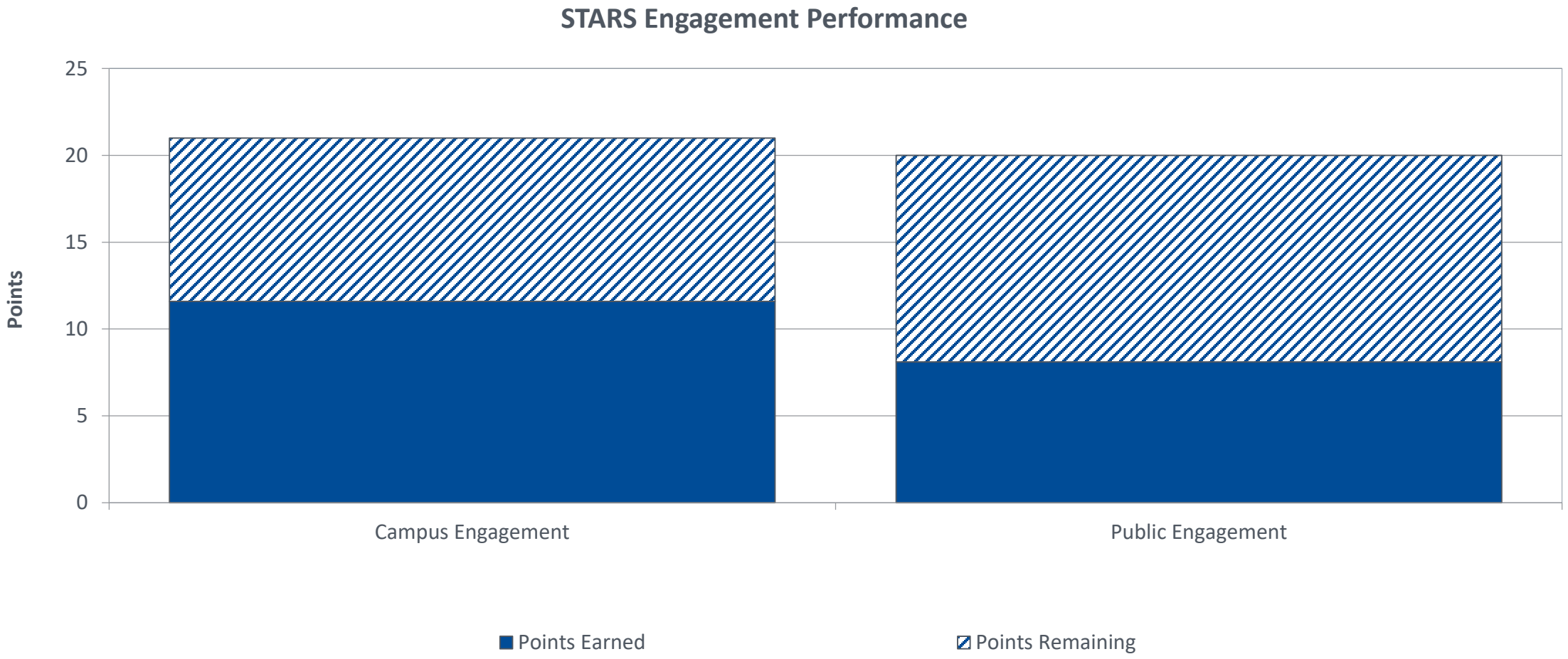
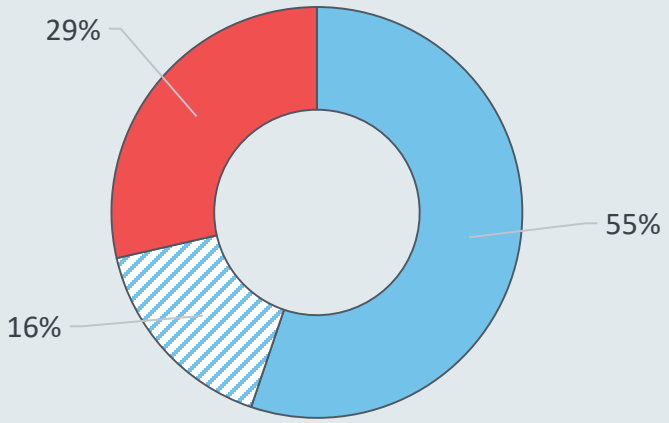
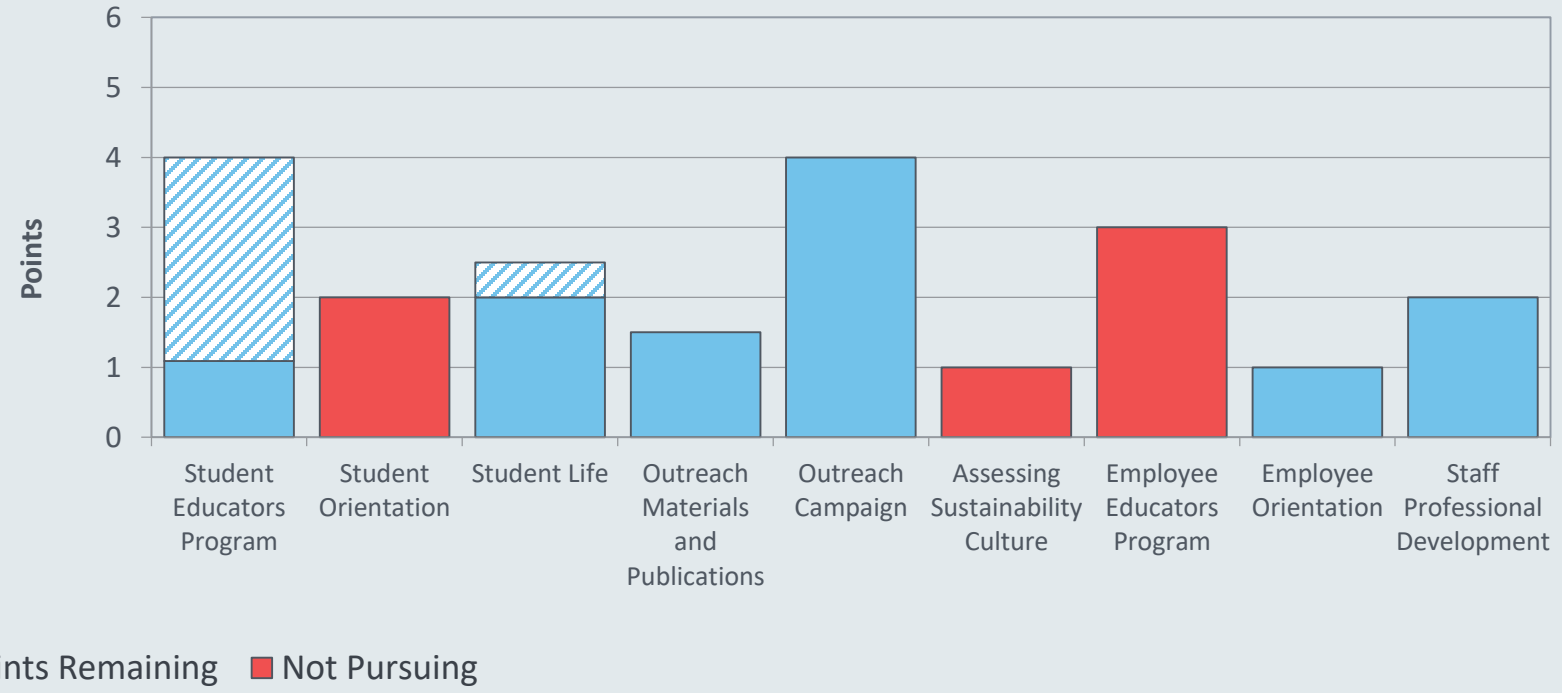
Clemson Engagement Performance By Category



Back to Score per Section

Campus Engagement





Campus Engagement Overview

Peer-to Peer sustainability outreach programs

Employee orientation includes sustainability programs and activities

Programs for students to learn about sustainability outside of the classroom

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Campus Engagement: Achievements

Strategies Checklist	Clemson
Sustainability-Focused Student Group	Yes
Garden, Farm, CSA, Urban Ag, Fisheries	Yes
Student-Run Sustainability Enterprises	Yes
Sustainable Investment Fund for Student Projects	Yes
Sustainability Conferences, Speaker Series, Symposia	Yes
Sustainability Cultural Events	Yes
Wilderness or Outdoor Program	Yes
Themed Semesters/Years	No
Sustainable Life Skills Workshops	Yes
Sustainability-Focused Student Employment Ops	Yes
Sustainability Graduation Pledges	No
Other Sustainability Co-Curricular Activities	Yes

100%

on campus students served through Eco-Reps peer education program

100%

of employees receive sustainability orientation

CLEMSON performance:

10/12

programs offered

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Campus Engagement: Achievements

Sustainability Materials & Outreach Checklist	Clemson
Sustainability Website	Yes
Sustainability Newsletter	No
Regular Column or Assigned "Reporter Beat"	No
Social Media for Sustainability Program	Yes
Publish & Disseminate Student Sustainability Research	No
Building Signage (Green Features)	Yes
Signage/Brochures for Sustainable Food Program	No
Signage for Sustainable Landscaping	Yes
Sustainability Walking Tour/Map	No
Sustainable Transportation Guide	Yes
Bicycle/Pedestrian Educational Resources	Yes
Guide to Green Living (or Residential Sustainability Program)	No
Other Sustainability Outreach Materials/Publications	No

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Campus Engagement: Opportunities for Growth

- ✓Incorporate sustainability into new student orientation to provide a baseline sustainability education to all entering students.
- ✓Enhance the sustainability culture assessment to track longitudinal progress of students' perception of sustainability from entering to graduation.
- ✓Create a peer-to-peer outreach program for employees

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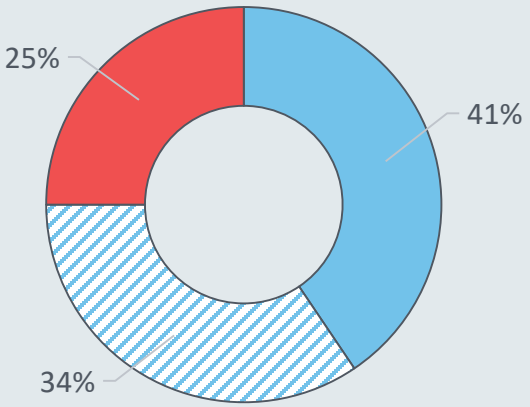
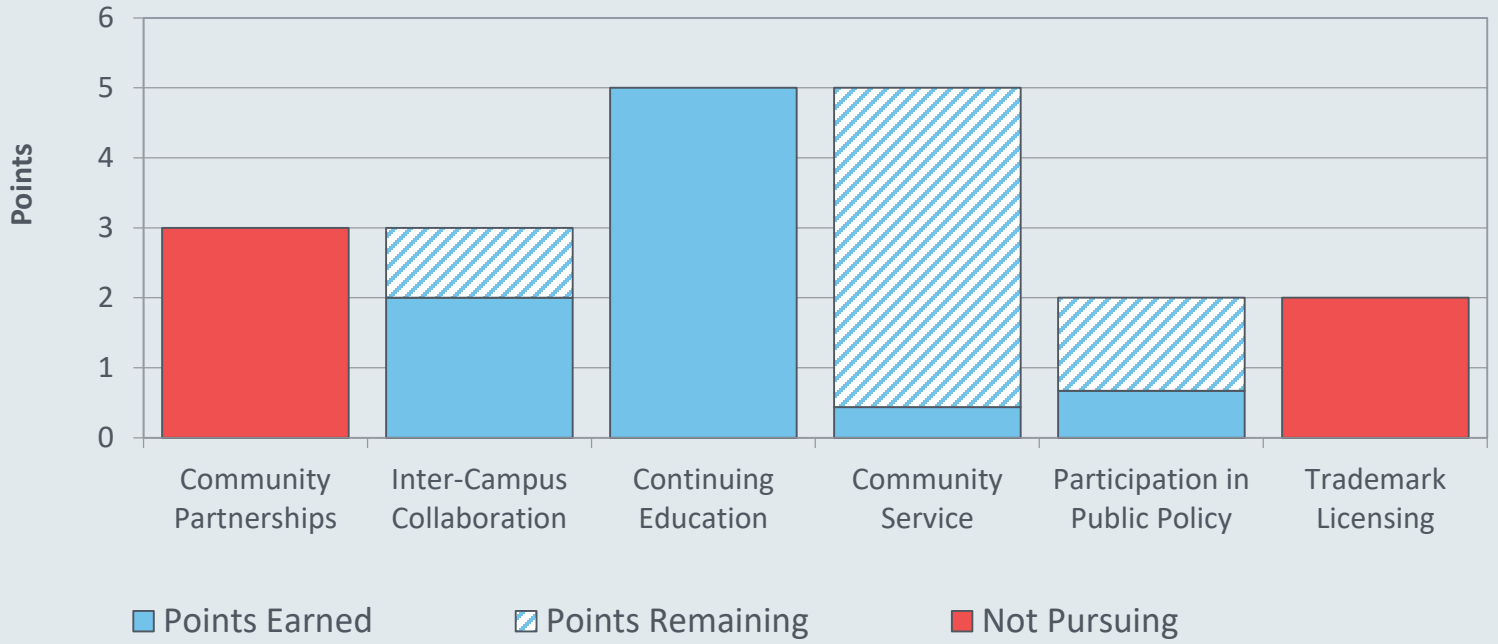
Public Engagement





Public Engagement: Overview

- ✓ Developed cross-community partnerships to advance sustainability
- ✓ Collaboration with other colleges or universities to help build campus sustainability
- ✓ Continuing education courses and programs in sustainability for the community
- ✓ Established community service program with measurable participation
- ✓ Promote sustainability through public policy participation

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Public Engagement: Achievements

7

Sustainability-focused continuing education courses

8.5%

Of students on campus tracked as participating in community service

Participation in Public Policy:

✓ **State level**

Strategies Checklist	Clemson
Member of Sustainability (Inter)National Network (e.g. AASHE)	Yes
Member of Sustainability Regional Network (e.g. Northeast Sustainability Consortium)	No
Institution presented at sustainability conference in Last Year	Yes
Case Study Submitted for Award/Resource Center In Last Year	Yes
Staff or Students Serve on external Sustainability Committee/Board	Yes
Mentoring Relationship with Another Institution	No
Served as Peer Reviewers for External Group	No
Other Collaborative Sustainability Ventures	Yes

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Public Engagement: Opportunities for Growth

- ✓Formalize partnership with Green Crescent Trail Group
- ✓Participate in a sustainability regional network to support and help build the campus sustainability community.
- ✓Consider joining either the Fair Labor Association or the Worker Rights Consortium
- ✓Improve community service tracking process to accurately represent all the work that is being done by students at Clemson.

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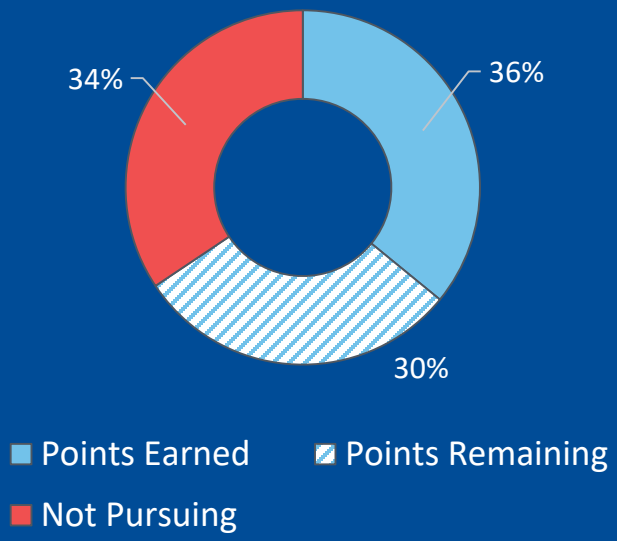
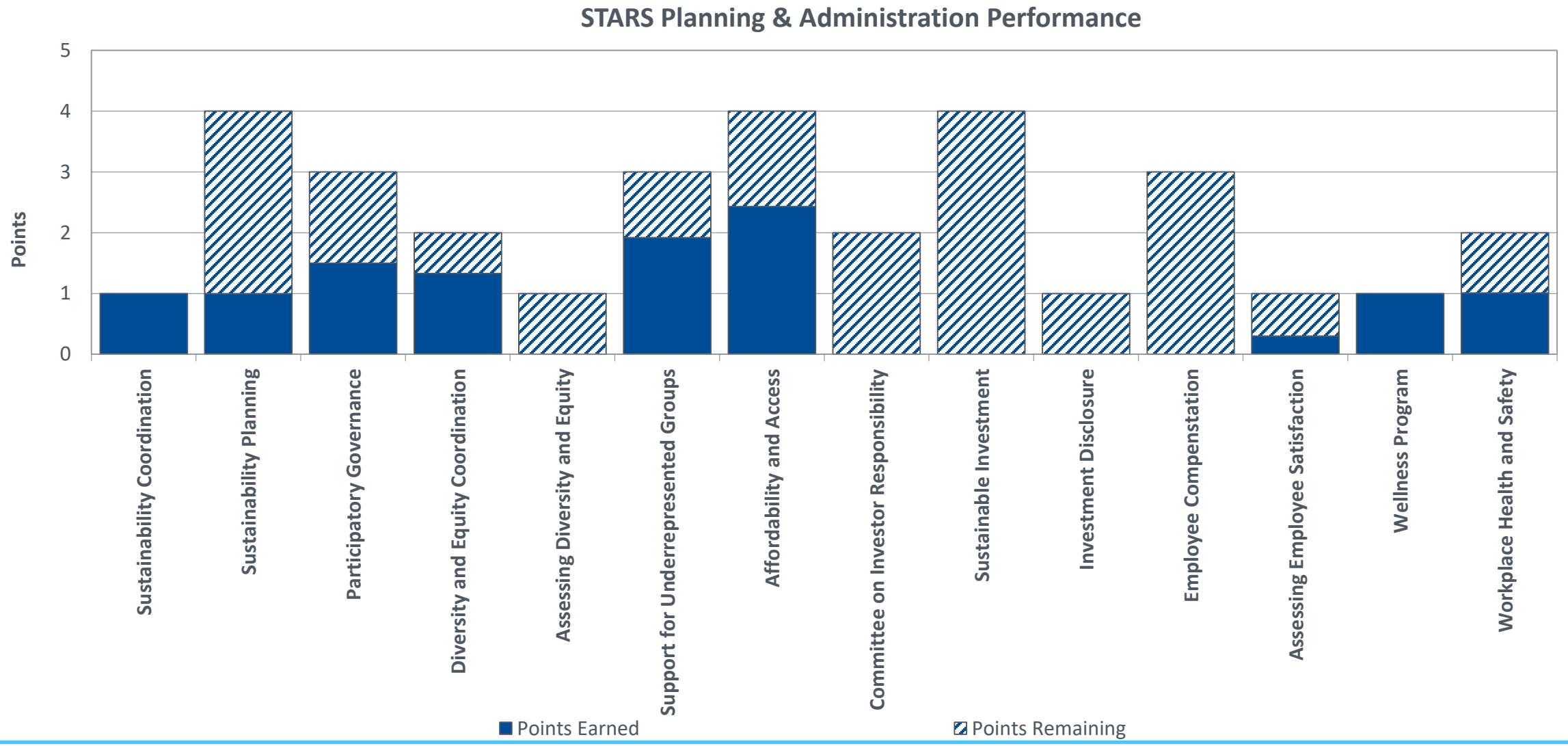
CLEMSON UNIVERSITY

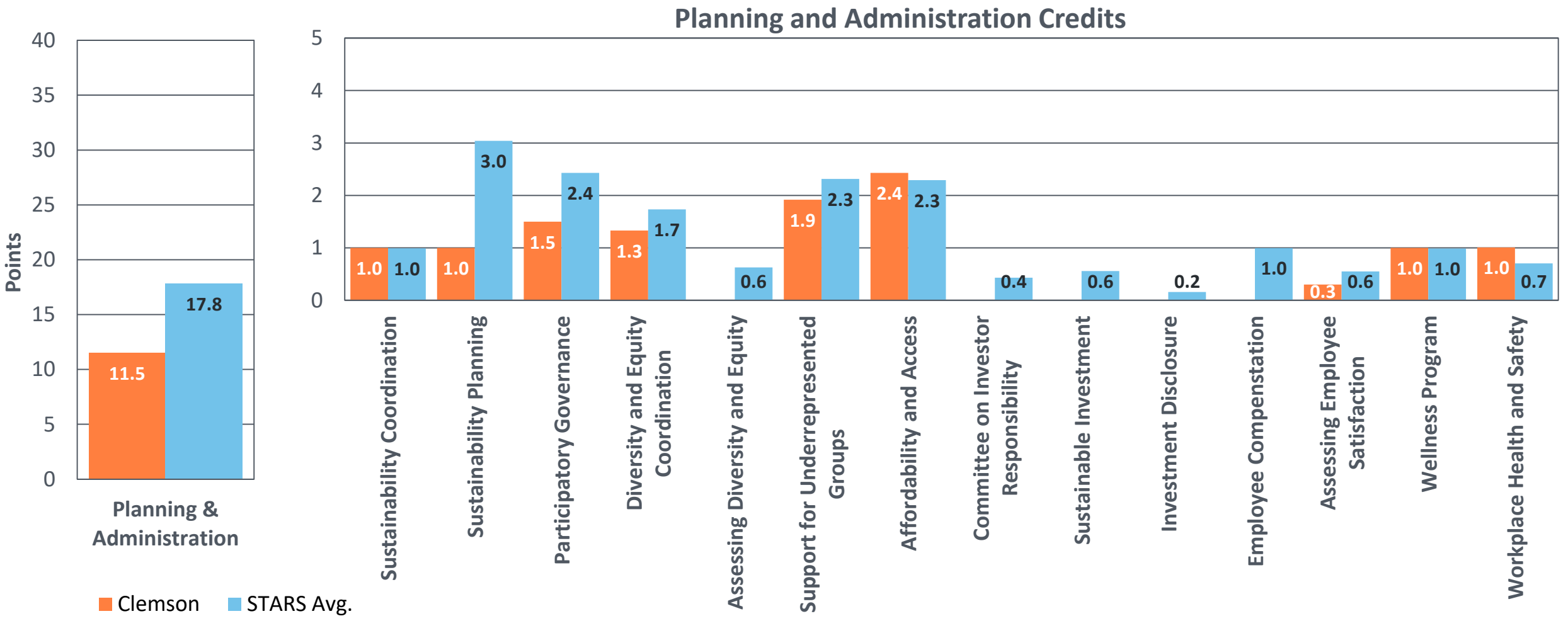
Planning & Administration



Planning & Administration Summary



Planning & Administration: Clemson vs. Average



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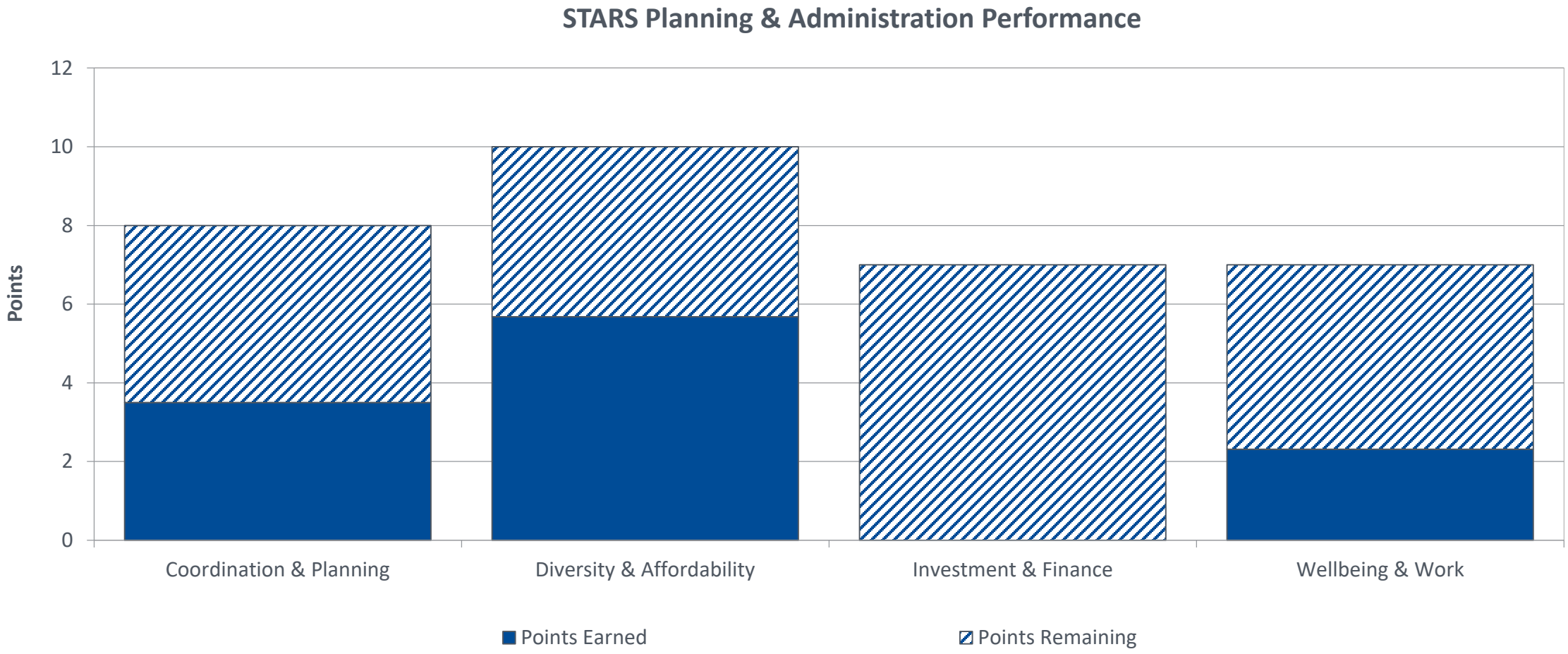
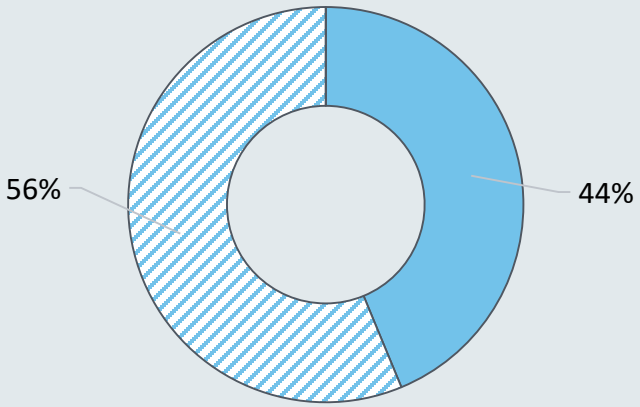
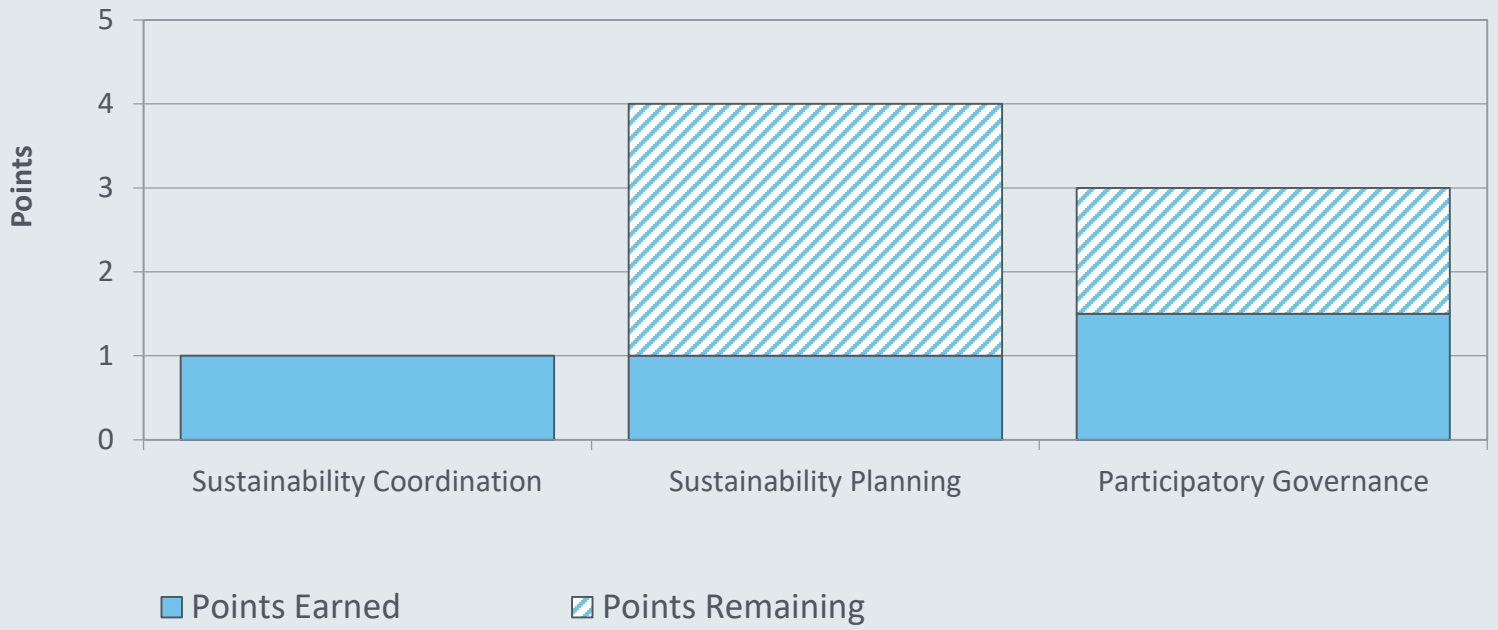
Clemson P&A Performance By Category



Back to Score per Section

Coordination & Planning





Coordination & Planning: Overview

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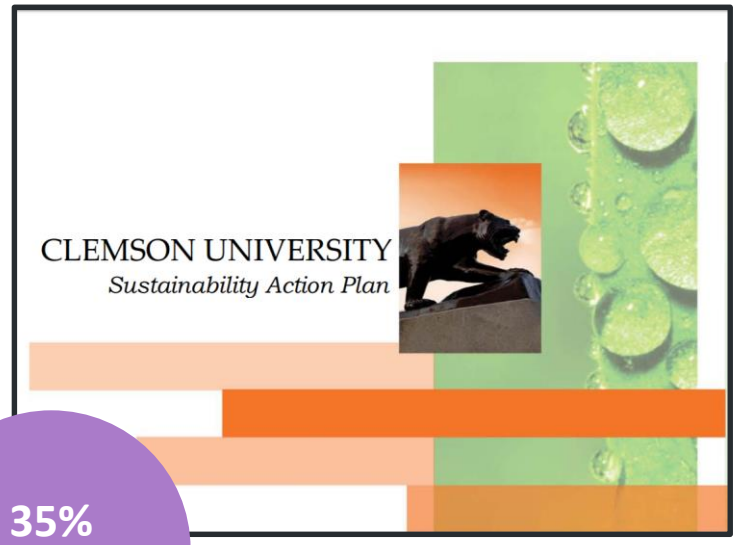
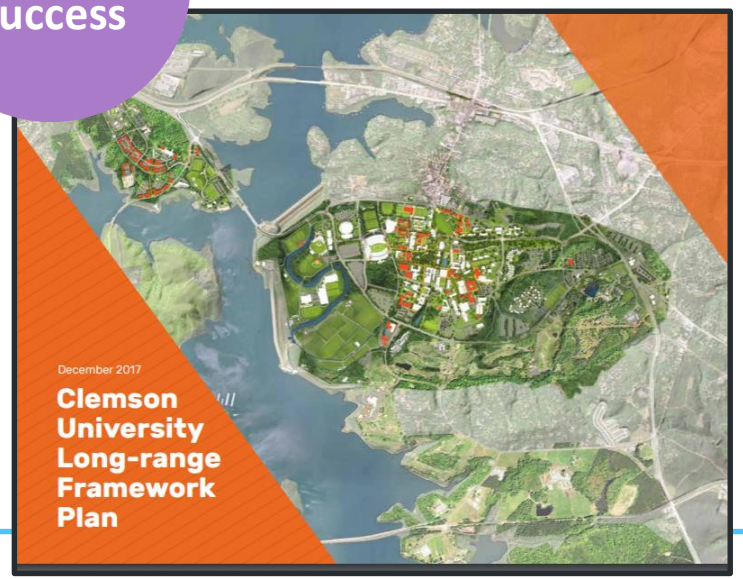
Coordination & Planning: Achievements

Formally Adopted & Measurable Policies	Clemson
Curriculum	Yes
Research	No
Campus Engagement	Yes
Public Engagement	No
Air & Climate	No
Buildings	No
Energy	Yes
Food & Dining	Yes
Grounds	No
Purchasing	No
Transportation	Yes
Waste	Yes
Water	No
Diversity & Affordability	No
Investment	No
Wellbeing & Work	No
Other (e.g. Art & Culture)	No





35% Success

Students, Faculty, and Staff have representatives at the highest level of campus governance

Clemson University Commission on Sustainability implements campus-wide coordination to creatively address sustainability

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Coordination & Planning: Opportunities for Growth

- ✓Update Sustainability Action Plan to incorporate more measurable objectives that allow Clemson to track progress, identify and document successes, and manage levels of resources devoted to goals. Specific areas that require formalization include Research, Public Engagement, Air & Climate, Buildings, Grounds, Purchasing, and Water.
- ✓Formalize policies to engage external stakeholders on institutional decisions that impact the community.
- ✓Create a pathway for community members to participate in Clemson governance

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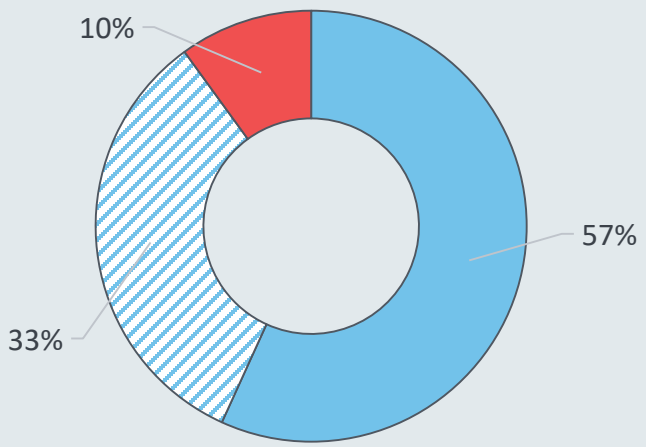
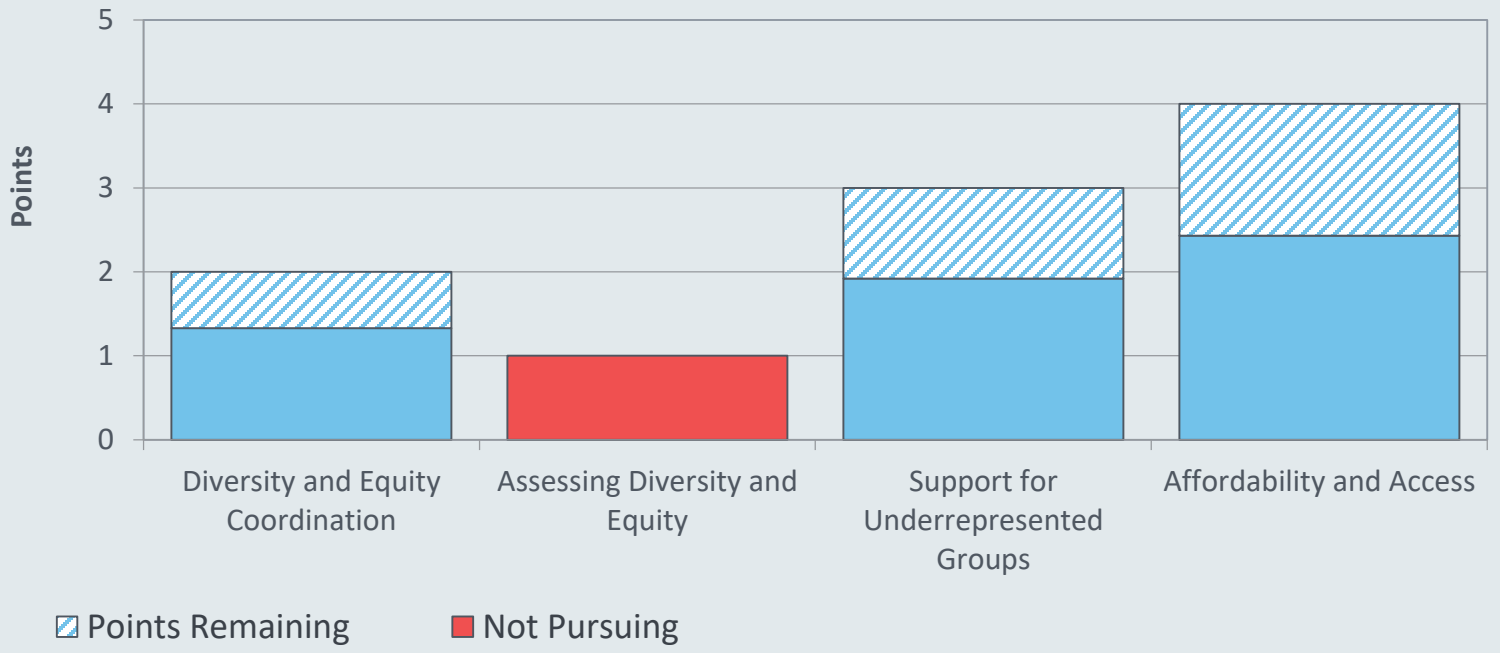
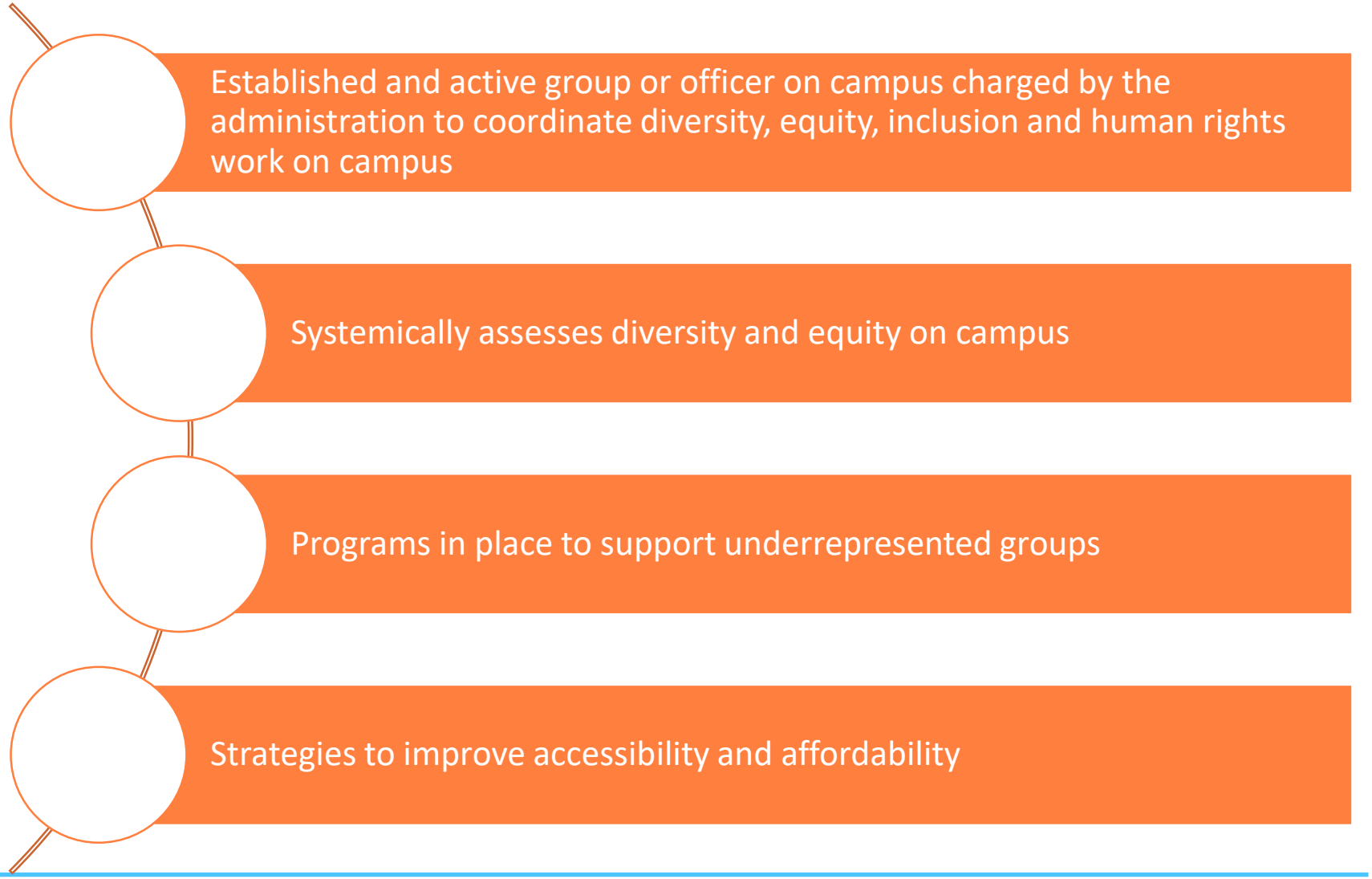
Diversity & Affordability





Diversity & Affordability: Overview



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Diversity & Affordability: Achievements

CLEMSON UNIVERSITY

On campus diversity officer

55% of students graduate with no debt

70% Graduation rate for low income students

Clemson participates in state and federal need-based programs and provides University funds for disadvantaged students, including low income, first generation, and underrepresented populations.

WISE, PEER, Tiger Alliance & Call Me Mister

Emerging Scholars, Connections, WAVS

SCHOLARSHIPS: Gateway to Clemson, Orange Carpet, IPTAY & Clemson Hardship Grant

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Diversity & Affordability: Opportunities for Growth

- ✓Institute Cultural Competency training across the campus community t include students, faculty and staff.
- ✓Conduct an assessment of students, faculty and staff understanding of the attitudes, perceptions and experiences of underrepresented groups (i.e. low-income and non-traditional).
- ✓Track success of existing programs on campus that support underrepresented groups on campus.

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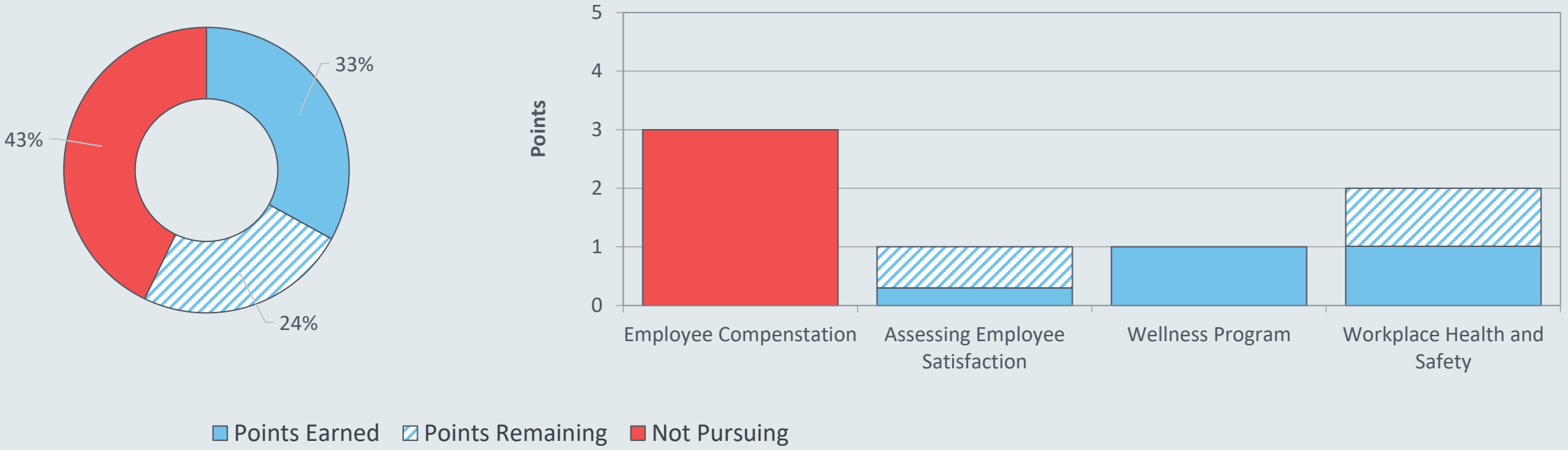
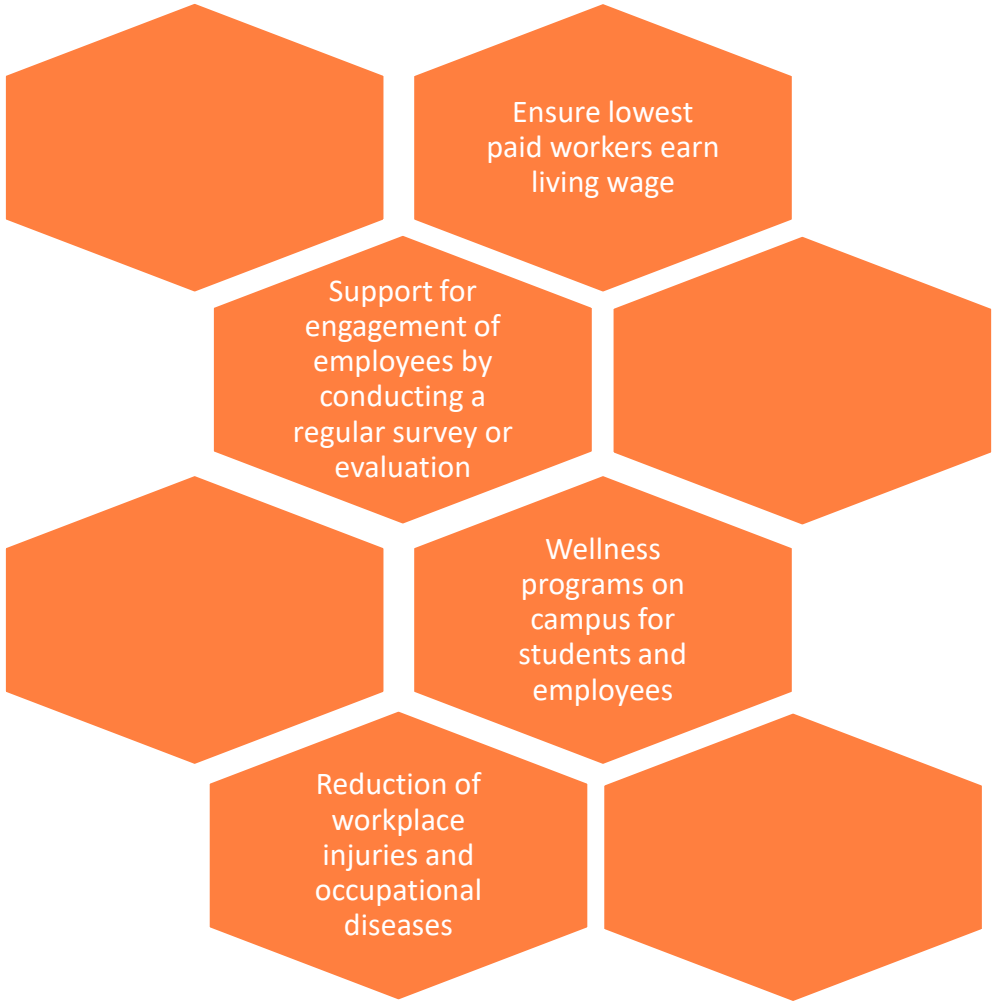
Wellbeing & Work



Wellbeing & Work: Overview



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Wellbeing & Work: Achievements

Wellness program for all students and employees

- ✓ Campus and Psychology Services (CAPS) available on campus for students
- ✓ Deer Oak Employee Assistance Plan provides 5 counseling sessions to all employees and family

WELLNESS

BE WELL

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Wellbeing & Work: Opportunities for Growth

- ✓Gather and report compensation of lowest pay grade on campus to identify whether or not this is a livable wage.
- ✓Conduct an employee satisfaction survey for both faculty and staff to help identify areas of improvement that can maximize the Clemson work environment experience.
- ✓Continue to gather and report workplace injuries to maximize employee safety.

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CLEMSON UNIVERSITY

Innovation & Leadership

**Innovation credits are optional and unearned points are not counted against final institution score*

About Innovation Credits

Innovation credits are open-ended and reserved for new, extraordinary, unique, ground-breaking, or uncommon outcomes, policies, and practices that address sustainability challenges and are not covered by an existing credit or exemplary practice option.

Credit type	Points per credit	Points available
Exemplary Practice	0.5	4
Innovation	1	4
Total points earned →		**Up to 4**

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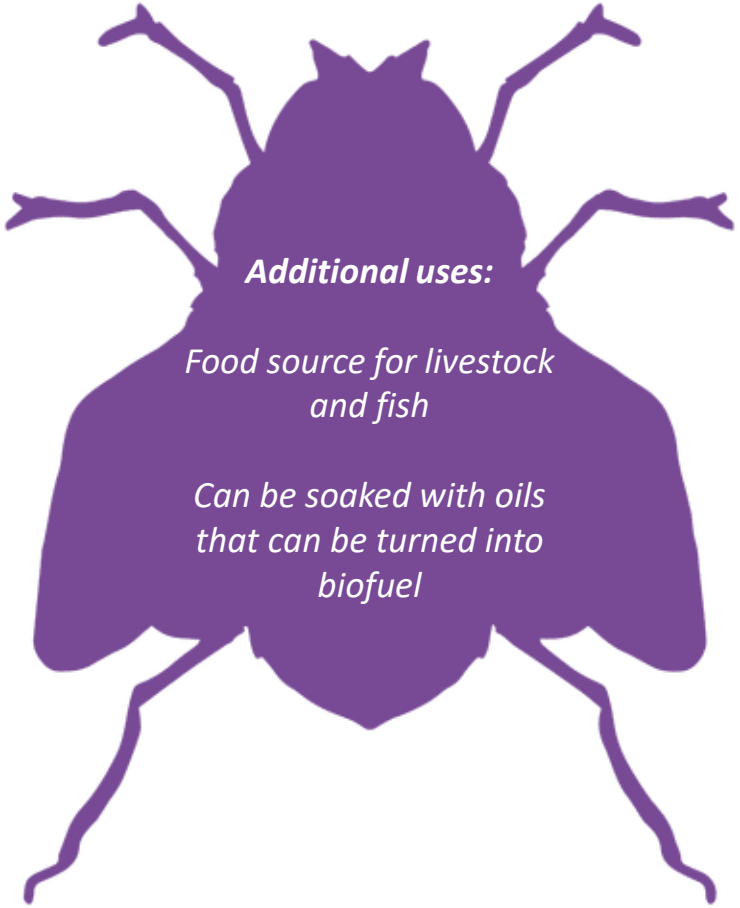
Innovation

Black Solider Flies Composting

Clemson University Student Organic Farm developed a composting system with the farm manager that uses food waste from the university dining halls to attract black soldier flies. This fly species does not bite or spread disease but does feed on waste.



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Innovation

Partnership with Habitat for Humanity

- For the last 25 years, the Clemson University Habitat for Humanity Campus Charter in partnership with Pickens County Habitat for Humanity has been building a house in a two week period to celebrate Homecoming.
- More than 500 Clemson students and community volunteers participate to construct a house on Bowman Field at Clemson and have it moved to the permanent location after Homecoming festivities.

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About Exemplary Practice Credits

- Emerging best practices that are not otherwise recognized in STARS.
- Initiatives and outcomes that are a step beyond what is recognized in a standard credit.
- Exemplary initiatives and outcomes that are only relevant to a minority of institution types or regions.

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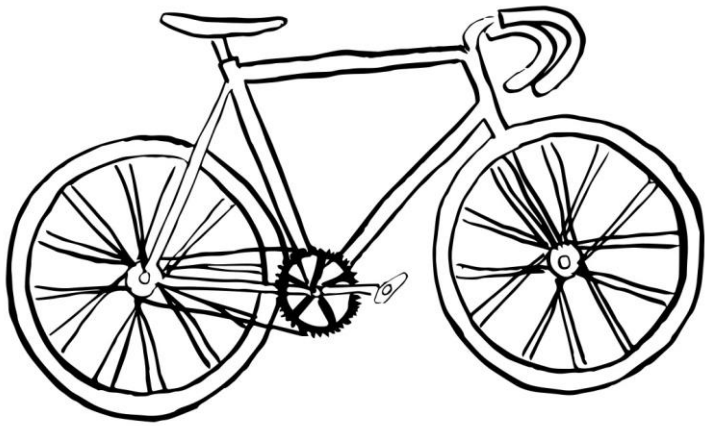
Exemplary Practice – Bike Friendly University

Certified as a League of American Bicyclists Bicycle Friendly University (Silver level or higher)



Clemson moves up in the ranks of bicycle-friendly universities

MEDIA RELEASE

Michael Staton, College of Behavioral, Social and Health Sciences
February 27, 2018

2 Share

CLEMSON — The League of American Bicyclists has moved Clemson University to silver status on its lists of Bicycle Friendly Universities.

Silver status universities welcome cyclists, encourage cycling culture and provide opportunities for travel via cycling, according to the league.

Peter Knudsen, senior planner in Clemson's university Planning and Design office, said Clemson's increased attention to cyclists gives students, faculty and staff even more reason to take advantage of another option to get around campus. Knudsen said making cycling a more viable option reduces parking demand and encourages a healthier lifestyle. It also encourages people to slow down and enjoy the sights at Clemson University.

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Exemplary Practice – Grounds Certification

Clemson University has been identified as a Tree Campus USA by the Arbor Day Foundation.

Arbor Day Foundation®

Clemson University named a Tree Campus USA School by Arbor Day Foundation

MEDIA RELEASE

Maggie Masterson, Class of 2017
October 27, 2016

4 Share

CLEMSON – Clemson University has been recognized as a Tree Campus USA for the sixth year in a row.

The program honors campuses that manage their trees effectively, connect with the local community to promote healthy forests and engage students in arboriculture, or urban forestry.

"Receiving the Tree Campus USA Award from the National Arbor Day Foundation for the sixth consecutive year it shows that the Landscaping Services Department here at Clemson University takes great pride in how we maintain our trees on campus," said Thomas Fallaw, director of Landscape Services at Clemson.

Clemson also fulfills the program's five criteria, which include having a campus tree advisory committee, a tree care plan, a campus tree program, an Arbor Day observance and a service- learning project.

Trees like these help make Clemson University a Tree Campus USA.
Image Credit: Ken Scar / Clemson University

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Exemplary Practice– Pre-Submission Review

Name, title and org affiliation of each reviewer

- Michele Isnard - Sightlines, Service Manager
- Jake Haslam - Sightlines, Analyst
- The pre-submission reviewers have had no contact with Clemson University or the data collection efforts.

Review process

- Michele Isnard reviewed: IC, EN, OP, PA and IN
- Jake Haslam reviewed: AC
- Michele and Jake noted any inconsistencies in the data and left detailed notes. When the first review was complete, Shelly Giannini and Kelly Marchione reviewed the results and made the corrections identified.

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Questions & Discussion